INDEX TO VOLUME LII.

JANUARY TO JUNE, 1887.

CONTENTS.

Articles and Reviews iii
Notes v
Reports of Meetings, Papers Read, Law Cases, &c. vii
Letters ix
Letters, Writers of ix
Miscellanea ix
Architects, &c., of Buildings Illustrated xi
Illustrations xi

ARTICLES AND REVIEWS.

ABANDONMENT of ancient lights, 529, 559, 622
Abbaye aux Hommes, Caen, 949
Abbeys: Fountains, 78; Pershore, lantern tower, 282, 331; St. Wandrille's, 854; Tewkesbury, 177; Westminster, Henry V.'s Chantry, 9
Aberdeen: building in, 63; infirmary, 867
Academic quarrels, 208
Academy, Royal (see "Royal Academy")
Acton drainage scheme, 534, 688
Aden, banking premises at, 77
Administrators as architects, 141
Africa, South, railways in, 422
Agents, house, 242, 302
Agricultural Hall, Kensington, 99, 168
Albany City Hall, U.S., 536
Alexandra House, Kensington Gore, 425
Almshouses: Charlton, 716; Louth, 348
American: Church, Paris, 10, 100, 148; Exhibition, Earl's Court, 829; house architecture, 147, 198, 800
Ancient lights, 529, 559, 622
Ancient wood and iron work, Cambridge, 308
Antike Denkmäler, 824
Antiquities, London, 2
Appartamenti Borgia, Vatican, 59
Applied art, 241
Applied mechanics and the resistance of materials, 791
Apse, St. Hugh's, Lincoln, 755
Arcade, Victor Emmanuel, Milan, 448
Archæological discoveries in Morocco, 495
Architects' charges, 530
Architectural Association Sketchbook, 792
Architectural: Conference, the, 661; education, 661; modelling, 167
Architecture: by adminstration, 141; American, 147, 198, 800; at the Manchester Exhibition, 410; at the Paris *Salon*, 707; picturesque, 594; at the Royal Academy, 629, 666, 713, 759, 795, 827, 862, 897, 931
Architecture in the reign of Victoria, 927
Architecture and architectural education, 661
Archives, municipal, Liverpool, 69
Arcueil-Cachan, Mairie at, 867
Armstrong, Mr., at the Society of Arts, 241
Arreton Church, 263
Art in Flanders, history of, 307
Art at the Society of Arts, 241
Art Club, Boston, U.S., 148
Art Museum, proposed, Geneva, 250, 448
Arterial drainage in Ireland, 823, 834
Artesian water supply, 161
Artisans' dwellings, Grosvenor-square, 498
Artists, decorative, 144
Aske's Hospital, Hoxton, 597
Assize-Courts, design for, 148
Associations of Gower-street, 143
Austin Friars, a relic at, 796
Austria, trade guilds in, 107

BAEDEKER'S Central Italy and Rome, 854
Bank, Commercial, of Sydney, 565
Bank of England, Fleet-street branch, 763
Banking premises, Aden, 77
Bankruptcy Offices site, 421, 929
Bartholomew's "Specifications," 172
Basingstoke Board schools, 282
Battery, new, for lighting, 466
Beckenham, new church at, 499
Belgium, trade guilds in, 108
Bethnal Green Town-hall, 63
Birkenhultz, decorative work by, 144
Boiler furnaces, warm blast, 954
Boni, Sig., on the Church of Santa Maria dei Miracoli, Venice, 711, 758
Books, pamphlets, &c., notices, reviews, and articles as to:—
Antike Denkmäler, 824
Architect and Contractor's Compendium, 525
Architectural Association's Sketchbook, 792
Architecture, Picturesque, 594
Baedeker's Central Italy and Rome, 854
Books, Pamphlets, &c. (*continued*):—
Bartholomew, A., Specifications for Practical Architecture, 172
Bate, F., Naturalistic School of Painting, 451
Beken, George: Freehold Disfranchisement, 66
Burr, W. H., Stresses in Bridge and Roof Trusses, 458
Century Guild Hobby Horse, 596
Clerk, Dugald, The Gas Engine, 238
Collings, G., Circular Work in Carpentry and Joinery, 854
Connon, J. W., Guide to Kirkstall Abbey, 74
Corfield, W. H., Treatment and Utilisation of Sewage, 929
Crehore, J. D., Mechanics of the Girder, 171
Dehaisnes, Canon, Histoire de l'Art dans la Flandre, &c., avant le XVe Siècle, 307
Denkmäler des Klassischen Alterthums, 173
Dresser, Chr., Modern Ornamentation, 492, 499
Eagles, T. H., Constructive Plane Geometry, 167
Edinburgh Architectural Association's Sketch-book, 862
Estate Management, 166
Facey, J. W., House Decoration, 167
Fawkes, F. A., Horticultural Buildings, 167
Fletcher, B., Light and Air, 201
Freeman, E. A., Exeter, 337, 623
Freeman & Hunt's Historic Towns Series, 1, 337, 557, 623
Furtwängler & Loeschke, Mykenische Vasen, 491
Gatty, A., St. Wandrille's Abbey, 854
Glasgow Architectural Association's Sketch-book, 310
Gore, J. H., Elements of Geodesy, 452
Gowans, Sir James, Model Dwelling Houses, 167
Graham, R. H., Graphic and Analytic Statics, 452
Hall, H., Society in the Elizabethan Age, 553
Hare, A. J. C., Studies in Russia, 268
Haskoll, W. D., Land and Marine Surveying, 201
Hesphey, M., Fire Risks of Electric Lighting, 793
Headley, J. C., Warm-Blast Steam Boiler Furnaces, 954
Hodges, R. F., Architectural Competitions, 460
Holloway, T., Levelling, 854
Holmes, A. B., Electric Lighting, 854
Holmes, G. C. V., The Steam Engine, 954
Home, C., Mensuration made Easy, 955
Hunt, W., Bristol, 557, 623
Industrial Self-Instructor, the, 101
Kalkmann, A., Pausanias der Periëget, 142
Keily, J., Expansion of Structures by Heat, 451
Kugler's Handbook of Painting, 376
Layard, Sir A. H., Kugler's Handbook of Painting, 376
Laxton's Builders' Pricebook, 687
Lloyd, Major E. M., Vauban, Montalembert, Carnot: Engineer Studies, 166
Loftie, W. J., London a Historic Town, 1
Merrett, H. S., and Usill, G. W., Land and Engineering Surveying, 268
Newsholme, A., School Hygiene, 854
Pendred, H. W., Iron Bridges, 451
Photography for Amateurs, 553
Picton, Sir James, Municipal Archives and Records of Liverpool, 69
Picturesque Architecture, 594
Planat, P., Pratique de la Mécanique appliquée à la Résistance des Matériaux, 791
Books, Pamphlets, &c. (*continued*):—
Price, F. G. Hilton, Signs of Old Lombard-street, 861
Price-Book, Laxton's, 687
Reade, T. M., Origin of Mountain Ranges, 207
Redfarn, W. B., Ancient Wood and Iron Work in Cambridge, 308
Reinach, S., Conseils aux Voyageurs Archéologues en Grèce et dans l'Orient Hellénique, 143
Richardson, T. A., Architectural Modelling in Paper, 167
Roberts, W. E., Elementary Plane Coordinate Geometry, 855
Rowe, E., Hints on Wood-carving, 101
Scott, Leader: Sculpture, Renaissance and Modern, 101
Scott, W., Historical Documents relating to St. Mark's, Venice, 665
Sketchbook, Architectural Assoc., 792
Sketchbook, Edinburgh Architectural Association, 862
Sketchbook, Glasgow Architectural Association, 310
Smith, J. Moyr, Ornamental Interiors, Ancient and Modern, 65, 100
Société Centrale d'Architecture (Belgium), Concours Publics, leur Utilité, leur Organisation, 758
Specifications for a Frame or Brick Building, 101
Spinks, W., Law and Practice as to Paving Streets, 687
Stoney, B. B., Stresses in Girders, 458
Street's Indian & Colonial Directory, 687
Stretton, C. E., Safe Railway Working, 268
Thropp, J., Management of Main Roads and Highways, 561, 623
Timber Trade Handbooks, 167
Todhunter, J., and Pearson, K., A History of the Theory of Elasticity and Strength of Materials, 273
Woodward, Horace B., Geology of England and Wales, 854
Boston (U.S.), Art Club, 148
Bourdon, Pierre, 74
Bourguet, Jean, 6
Boyle's vertical exhaust ventilator, 99
Brasenose College, Oxford, 832
Bridges, iron, 451
Brighton, Church of St. John Baptist, 763
Bristol, 557, 623
Bruges, chimneypiece, Palais de Justice, 315
Bryanston Working Men's Club, 917
Builder sign, the, 499
Builder's map of London, 9, 77, 116, 147, 178, 265
Building; in Aberdeen, 63; slovenly, 62
Building Trades' Exhibition, the, 447
Building trades in Morocco, 417
Buildings: horticultural, 167; for Poor-Law Administration, 585
Bureau des Marchands-Drapiers, Paris, 527, 536
Burning of the Opéra Comique, Paris, 828

CAEN, Abbaye aux Hommes, 949
Cambridge, ancient wood and iron work, 308
Canal-boats, 593, 630
Canal transport of heavy goods, 593, 630
Canons, Middlesex, 949
Carisbrooke Church, 263
Carlisle markets, 63
Carnavalet Museum, Paris, 527, 536
Carpentry and joinery, 854
Carravaggio, decorative work by, 144
Casino Theatre, New York, 536
Castles: Edinburgh, 76, 638; Elz, 602; Limburg-on-the-Lahn, 602
Cathedrals: Lincoln, excavations at, 755; Milan, 860; Rouen, 426; Siena, 3
"Chair," the "Enchanted," 9
Champion-hill Infirmary, 316, 625, 638
Chantilly, the gift of, 5
Chantry of Henry V., Westminster Abbey, 9
Chapels: Holloway College, 867; Wesley Memorial, Epworth, 601, 656
Charges, customary, 530
Charlton, almshouses at, 716
Charter, new, R.I.B.A., 457, 652
Châteaux: Chantilly, 5; Fontainebleau, marble chimney-piece, 315
Chelsea Town-hall, 115
Chicago, houses in, 148, 198
Chimney-pieces: Château de Fontainebleau, 315; Palais de Justice, Bruges, 315
Chiswick, St. Mary Magdalene's Church, 426
Christian, Ewan, works by, 423
Church, Classical, Tite Prize Design, 216
Church, suburban, design for, 282
Churches, ancient London, 2
Churches: All Saints', Peterborough, 78; American, Paris, 10, 100, 148; Arreton, 263; Carisbrooke, 263; Congregational, West Croydon, 197; Garrison, Stuttgart, 565; Gloucestershire, 177; Godshill, 263; Holy Innocents, Hammersmith, 9; Notre Dame de l'Épine, 282; of the Redeemer, Clerkenwell, 670, 733; St. George's, Beckenham, 499; St. John's, Rhyl, 316; St. Margaret's, Ipswich, 565; Santa Maria dei Miracoli, Venice, 711, 758; St. Mary Magdalene, Chiswick, 426; St. Nicholas, Lynn, porch, 466; St. Olave's, Old Jewry, 533; St. Paul, Kensington, designs for, 116, 316; Sunningdale, 800; Warminster, 250; West Walton, nave pier, 466
Churches, Roman Catholic: St. John-the-Baptist, Brighton, 763; Spanish-place, 849, 897; St. Vincent de Paul, Mill-hill, 917
City churches, Wren's, 533
City Hall, Albany, 536
Circular work in carpentry, 854
Circumferentor, the, 302, 332
Classical church, a, 216
Clerkenwell, Church of the Redeemer, 670, 733
Clipsham Hall, stables, &c., 602
Clissold Park, Stoke Newington, 312
Clock-tower, Margate, 714
Cloister buildings, Stowell Park, 917
Club, Bryanston, 917
Club, National Liberal, 781, 800
Coffin, leaden, found in Austin Friars, 796
Coligny monument, Paris, 197
College, Brasenose, Oxford, 832
Commercial Bank of Sydney, 565
Compass, prismatic, 202, 236
Compass clinometer, 237, 266
Conference, the Architectural, 661
Congregational Church, Croydon, 197
Contract system, the, 62
"Conversion of England," the, 147
Cottage, seashore, Massachusetts, 148
Council of the R.I.B.A., 688, 733
Crests, 865, 921
Croydon: Congregational Church, 197; Palace, 379
Cupola furnace, a new, 655
Customary charges, 530

DE BRYS, the two, 211
Deane, T. M., on Siena Cathedral, 3
Decoration, house, 167
Decorations, Appartamenti Borgia, Vatican, 59
Decorative artists, a cluster of, 144
Decorative design, 6, 74, 111, 144, 179, 211
Decorative work of Virgilius Solis, 829
Deerhurst, 177
Denmark: notes from, 849; trade guilds in, 108
Depression of trade, 139
Design for an art museum, 250
Design for a "Classical Church," 216
Design, decorative, 6, 74, 111, 144, 179, 211
Design for the London Oratory, 536

ARTICLES AND REVIEWS (continued):—

Design for a People's Palace, 250
Design for a suburban church, 282
Designers: of goldsmiths' work, 6, 74, 111; of grotesques, 598, 633; some unknown, 277
Designs for Edinburgh Municipal Buildings, 76, 299, 311, 330, 341, 380, 384, 426, 466, 499, 528, 565, 597, 601, 639, 917
Designs for stained glass, 348, 602
Dietzsch kiln, the, 622
Dining-room and furniture, 716
Disaster at the Opéra Comique, Paris, 828
Discoveries: at Lincoln Cathedral, 755; in Morocco, 495
Discussion on Sewage, Society of Arts, 146
District Surveyors' map of London, 9, 77, 116, 147, 178, 265
Doorways: City Hall, Albany, 536; Palazzo Tolomei, Siena, 499
Drainage: Acton, 534, 688; Hendon, 636, 685; in Ireland, arterial, 823, 884
Drainage-works at the Houses of Parliament, 178
Drama, historial, 147
Drawings: for the Royal Academy, 250; students', at the Institute, 140
Dutch designer, a, 934
Dwelling-houses, model, 167

EBNER'S hydrofuge floors, 735
Edinburgh Castle, 76; a suggested restoration, 638
Edinburgh Library competition, the, 891
Edinburgh Municipal buildings, 76, 299, 311, 330, 341, 380, 384, 426, 466, 499, 528, 565, 597, 601, 638, 917
Edinburgh notes, 76, 380
Education, architectural, 661
Eiffel Tower, Paris, 5, 210, 340, 663
Elasticity and strength of materials, 273
Electric lighting, 854
Elements of geodesy, 452
Elizabethan "Society," 553
Elz Castle, 632
"Enchanted Chair," the, 9
Engineering, military, 166
Engines, gas, 268
England, the Conversion of, 147
English iron trade in 1886, 76
Engravings by the two De Brys, 211
Epworth, Wesley Memorial Chapel, 601, 656
Estate management, 166
Europe, trade guilds of, 107
Excavations at Lincoln Minster, 755
Exeter, 337, 623
Exhibitions: American, Earl's Court, 829; Building Trades, 447; Glasgow (1888), 534, 536; Manchester, 410, 708, 831, 950; Newcastle, 932; Old Masters at the R.A., 71; Paris (1889), 5, 210, 340, 494, 668, 829; Raffaelle reproductions, Liverpool, 669; Royal Academy, 662, 714; Vandyck's works, 108
Expansion of structures by heat, 451

FAIRFAX House, Putney, 263, 384, 517
Fenchurch-street, Ingram House, 197, 216, 263
Fetter-lane, Sampson Low & Co.'s warehouse, 250
Ficquett's Field, 421
Fieldwork and instruments (see "Student's Column")
Fifty years of modern architecture, 927
Fire-engine station, Hornsey, 216, 266
Flanders, art in, 307
Fleet-street branch, Bank of England, 763
Floors, Ebner's hydrofuge, 735
Folkema, decorative work by, 144
Fontainebleau, marble chimney-piece, 315
Fonts, Norfolk, 632
"Forge," the, St. Clement Danes, 421, 929
Formation of mountains, 207
Foundations of St. Hugh's apse, Lincoln, 756
Fountain, Piccadilly-circus, 563
Fountains Abbey, 78
France: sketches in, 282; trade guilds in, 107
Fraser, Bishop, monument to, 935
Free Library designs, Edinburgh, 891
Freehold disfranchisement, 66
French jewellers, old, 6
Friezes, "Spring time," 179
Frontage lines, definition of, 244, 310
Frost and mortar, 235
Furnace, cupola, 655
Furniture, dining-room, 716

GALLE, Philip, decorative work by, 144
Garrison Church, Stuttgart, 565
Gas engine, the, 268
Gaslight, the Welsbach, 265
Geneva, proposed Art Museum, 250, 448
Gentsch, Andreas, designs by, 111
Geodesy, elements of, 452
Geology: of England and Wales, 854; mountain-ranges, 207
Geometry, 855; constructive, 167
German: Archæological Institute, 824; castles, two, 602
Germany, trade guilds in, 107
Girder, mechanics of the, 171
Girders, stresses in, 418
Glasgow: Exhibition, 534, 536; Subway, 422
Gloucestershire, notes in, 177
Godshill Church, 263
Goldie, the late George, 367
Goldie & Child's design for London Oratory, 536
Goldsmiths' work: by Jean Bourguet and Pierre Bourdon, 6, 74; by Herbst, Le Blond, and Gentsch, 111
Government Railway Bill, the, 375
Gower-street, 143
Graphic and analytic statics, 452
Grate, the "Marlborough," 523
Graythwaite Hall, 867
Grimsby, house at, 849
Grosvenor Gallery: summer exhibition, 667; Vandyck at the, 108
Grosvenor-square, artisans' dwellings, 498
Grotesque, 598, 633
Guilds, trade, in Europe, 107

HALL of the People's Palace, 716
Hall of Staple Inn, Holborn, 865
Hammersmith: Church of the Holy Innocents, 9
Hampstead Vestry-hall, 763
Handbook of Painting, Kugler's, 376
Handel at Canons, Middlesex, 949
Harris Free Library, Preston, 116, 201
Hastings and St. Leonards Hospital, 179
Heat, expansion of structures by, 451
Hendon drainage works, 636, 685
Henry V.'s Chantry, Westminster Abbey, 9
Herbst, J. B., decorative designs by, 111
Hill's reversible rim-lock, 162, 238
Historic towns: Bristol, 557, 623; Exeter, 337, 623; London, 1
History of: Art in Flanders, 307; Gower-street, 143
Hofkirche, Innsbruck, Maximilian's tomb, 638
Holland, trade guilds in, 108
Holloway College: Chapel, 867
Home for female art students, Kensington, 425
Home for ladies at Hove, Brighton, 78
Hoorn, the water-gate, 563
Hornsey mortuary and fire-engine station, 216, 266
Horticultural buildings, 167
Hospital, Hastings and St. Leonards, 179
Hôtel Bourgthérolde, Rouen, 670, 785
Hôtel Carnavalet, Paris, 527
Hôtel de Ville, Arcueil-Cachan, 867
Hôtel de Ville, Pantin, 9, 341
Hôtel de Ville, Paris, 341, 494, 668
Hôtel des Postes, Paris, 5
Hôtel Victoria, London, 753, 787, 817
House agents, 242, 302
House architecture. American, 147, 800
House decoration, 167
House-lighting by electric battery, 466
Houses: Chelsea, 348; Chicago, 148, 198; Graythwaite Hall, 867; Grimbsy, 849; Kensington Court, 754; "Oakleigh," Tunbridge Wells, 535; Rouen, 282; Whitehall Court, 752; Wimbledon, 763
Houses of Parliament drainage, 178
Hoxton, Aske's Hospital, 597
Hydrofuge floors, Ebner's, 735
Hygiene of schools, 854

IMPROVED Industrial Dwellings Co., 498
Improvement schemes, London, 8
Improvements in Aberdeen, 63
Incandescent gas-light, Welsbach, 265
Industrial art, 241
Infirmaries: Aberdeen, 847; St. Saviour's Union, Champion-hill, 316, 625, 638
Ingram House, Fenchurch-street, 197, 216, 263
Innsbruck, Maximilian's tomb, 638
Institute of Architects: new Charter, 457, 652; students' drawings, 140; subjects of medals and prizes for 1888, 200
Institution of Civil Engineers, sewage question at, 562
Instruments, surveying (see "Student's Column")
Interiors, ornamental, 65, 100
Ipswich, St. Margaret's Church, 565
Ireland, arterial drainage in, 823, 884
Iron: bridges, 451; girders, 171
Iron trade, English, in 1886, 76
Ironwork, ancient, in Cambridge, 303
Isle of Wight, sketches in, 263
Italian schools of painting, 376
Italy, trade guilds in, 107

JACQUINET, decorative work by, 144
Jamitzer, Wenzel, decorative work by, 145
Janssens, Hendrik, decorative work by, 145
Jewellers, two old Parisian, 6, 74
Jones, Sir Horace, the late, 799, 849, 864
Jubilee Exhibition, Manchester, 410, 708, 831, 864, 950

KENSINGTON: Agricultural Hall, 99, 168; Alexandra House, 425; Church of St. Paul, designs for, 116, 316
Kensington Court, 754
Kiln, the Dietzsch, 622
Kugler's Handbook of Painting, 376

LABOUR and wages in Morocco, 418
Ladies' home at Hove, Brighton, 78
Lambeth workhouse, 585
Land surveying, 201, 268
Langport Church, reredos at, 409, 935
Lantern tower, Pershore Abbey, 282, 331
Law of: light and air, 201; street paving, 687
Law courts for small town, 148
Laxton's Price Book, 687
Le Blond, Michel, designs for goldsmiths' work, 111
Letters from Paris, 5, 210, 340, 494, 668, 828
Levelling, 854
Levelling instruments (see "Student's Column")
Library designs, Edinburgh, 891
Library, Harris Free, Preston, 116, 201
Light and air, 201
Lighting, electric, 854
Lights, ancient, 529, 559, 622
Limburg-on-the-Lahn, castle, 602
Lincoln Cathedral, excavations at, 755
Line ranger, the, 166
Line of frontage definitions, 244, 310
Lion of St. Mark, Venice, 77, 142
Liverpool: municipal records, 69; Raffaelle reproductions, 669
Local Board Offices, Willesden, 301, 332, 499
Lock, a reversible rim, 162, 238
Locks, canal, 593, 630
London: *Builder* map, 9, 77, 116, 147, 178, 265
London, history of, 1
London and the Session of 1887, 8
London sewage question, the, 549, 562
London theatres, control of, 280
London water supply, 161
Louth, the Orme Bedehouses, 349

MACHINERY, Manchester Exhibition, 831, 864, 950
Machinery, rateability of, 9
Mairies: Arcueil-Cachan, France, 867; Pantin, 9, 341
Management of an estate, 166
Manchester Exhibition, 410, 708, 831, 864, 950
Mansions: Graythwaite Hall, 867; St. Ermin's, Westminster, 935; Stowell Park, 917
Map of London, the *Builder's*, 9, 77, 116, 147, 178, 265
Margate Clock Tower competition, 714
Marine surveying, 201
Market, Oxford (London), 116
Markets, Carlisle, 63
"Marlborough" grate, the, 523
Materials: resistance of, 791; strength of, 273
Maximilian's Tomb, Innsbruck, 638
"Measure and value," 62
Mechanics, applied, and the resistance of materials, 791
Mechanics of the girder, 171
Medals and prizes at the Institute, 200
Mensuration made easy, 955
Metropolitan Board of Works: annual report, 863; improvement schemes, 8; and London theatres, 280
Milan: cathedral, 860; Victor Emmanuel arcade, 448
Military engineering, 166
Mill Hill, Church of St. Vincent de Paul, 917
Model dwelling-houses, 167
Modelling, architectural, 167
Modern ornamentation, 492, 499
Monuments: to Bishop Fraser, 935; to Bishop Ollivant, 935; to Coligny, Paris, 197; of the Revolution, Paris, 341, 495
Morocco: building trades in, 417; discoveries in, 495
Mortar and frost, 235
Mortuary building, Hornsey, 216, 266
Mountain building, 207
Musée Carnavalet, Paris, 527, 536
Municipal Buildings, Edinburgh, 76, 299, 311, 330, 341, 380, 384, 426, 466, 499, 528, 565, 597, 601, 638, 917
Municipal Buildings, Sunderland, 763
Municipal Records of Liverpool, 69
Museum for Geneva, proposed, 250, 448
Mycenæ vases, 491

NATIONAL Agricultural Hall, Kensington, 99, 168
National Gallery and local street improvements, 900
National Liberal Club, 781, 800
Naturalistic school of painting, 451
Newcastle Exhibition, the, 932
Norfolk fonts, 632
Northampton, schools at, 763
Northumberland-avenue Hotel, 753
Notes: at the American Exhibition, 829; on crests, 865, 921; from Denmark, 849; from Edinburgh, 76, 380; in Gloucestershire, 177; from Paris, 5, 210, 340, 494, 668, 828; on Siena Cathedral, 3; from Sweden, 498, 849
Notre Dame de l'Épine, near Chalons-sur-Marne, 282

OFFICES: new Bankruptcy, 421, 929; Fenchurch-street, 197, 216, 263; for Sampson Low & Co., Fetter-lane, 250; of the West Bromwich Union, 565; Woolwich, 670; of the *Yorkshire Post*, Leeds, 282, 335
Ollivant, Bishop, monument to, 935
Old Jewry, St. Olave's Church, 533
Old Masters at the Royal Academy, 71
Old Paris jewellers, 6, 74
"Olympia," the stables of, 99, 168
Open spaces, London, 8
Opéra Comique disaster, Paris, 828
Optical square, the, 64
Oratory, Brompton, Goldie & Child's design, 536
Origin of Mountain-ranges, 207
Orme Bede-houses, Louth, 348
Ormuz, saloons of the, 849
Ornament: by Pierre Bourdon, 74; by Jean Bourguet, 6; by the two De Brys, 211; by unknown designers, 277; by Virgilius Solis, 829
Ornamental interiors, 65, 100
Ornamentation, modern, 492, 499
Over-production, 139
Oxford, Brasenose College, 832
Oxford Market, London, 116
Ornament by a Dutch designer, 934

PAINTING, Kugler's Handbook of, 376
Painting, naturalistic school of, 451
Paintings, Appartamenti Borgia, Vatican, 59
Palace, Croydon, 379
Palace, People's, Mile End, 716
Palais de Justice, Bruges, chimney-piece, 315
Palazzo Tolomei, Siena, 499
Pantin, the Hôtel de Ville, 9, 341
Paris: American Church, 10, 100, 148; art and politics, 5; Avisse, the late Paul, 5; Bartet, the late M., 211; Budget of the Beaux Arts Department, 211; Bureau des Marchands-Drapiers, Paris, 527, 536; *Châlets de nécessité*, 110; Church of the Assumption, 5; Coligny monument, 197; Colonial Exhibition, 210; Competitions, 5, 211, 341, 668; Daumas, the late M., 211; Deroche, the late V., 5; dispute between sculptors, 211; École des Beaux Arts, 5, 211; Eiffel Tower, 5, 210, 340, 668; electric lighting, 668; Exhibition of 1889, 5, 210, 340, 494, 668, 829; exhibitions of pictures, 5, 211, 340, 341, 495, 828; French railway jubilee exhibition, 210; Gaillard, the late F., 211; Guillaumet, the late G., 495; Guimet Museum, 5; Hillemacher, the late M., 495; Hôtel de Ville, 341, 494, 668; Hôtel de Ville, Pantin, 9, 341; Hôtel des Postes, 5, 211; Lièvre, the late Edouard, 5; Lontaché, the late J. M. le, 211; Mairie, Pantin, 9, 341; Maréchal, the late M., 211; Médailles d'Honneur at the Palais d'Industrie, 829; Melin, the late Joseph, 5; Metropolitan Railway, 5; Mirlitons, the, 341; Monument to François Millet, 668; Monument of the Revolution, 341, 495; Municipality, 668; Musée Carnavalet, 527, 536; Opéra Comique disaster, 828; Orry, the late Abel, 5; politics and art, 5; price of gas, 668; public works, 211, 341, 495, 668, 829; Ruprich-Robert, the late M., 828; St. Lazare Railway Station, 495; *Salon*, the, 494, 668, 707, 760, 828; snow removal, 147; Sorbonne, 495; statues, 5, 211; of Rousseau, 602; tomb of Berlioz, 495; Town-hall, Vincennes, 668; trial of M. Baffier, 668; water supply, 454
Paris, letters, 5, 210, 340, 494, 668, 828
Parisian jewellers, old, 6, 74
Park, Clissold, Stoke Newington, 312
Parliament Hall, Edinburgh Castle, 76
Patent Office Report, 418
Paving, new method of, 163
Peculiarities of house agents, 242, 302
People's Palace, the, 716
Pershore Abbey, lantern tower, 282, 331
Peterborough, All Saints' Church, 78
Photography for amateurs, 553
Piccadilly-circus, 563
Pictures: at the Grosvenor Gallery, 667; at the Paris *Salon*, 760; at the Royal Academy, 662, 714; by Old Masters at the Royal Academy, 71
Picturesque architecture, 594
Pier, West Walton Church, 466
Pittoni, B., decorative work by, 145
Pneumatic sewage ejectors, 178
Porch, St. Nicholas Church, Lynn, 466
Portal of Rouen Cathedral, 426
Powell, Geo. H., on the abandonment of ancient lights, 529, 559, 622
Powers of Superintending Architect, 244, 310
Premises: Brook-street, Grosvenor-square, 638, 688; Wimbledon, 763
Presbytery, Lincoln Minster, 755
Preservation of stone, 859, 893, 952
Preston, the Harris Free Library, 116, 201
Price-book, Laxton's, 687
Prismatic compass, the, 202, 236
Prizes at the Institute, 200
Probate Registry, York, 348
Professional: charges, 530; wire-pulling, 457
Public Offices competition, Willesden, 301, 332, 499
Public works in Paris, 211, 341, 495, 663, 829
Publishers' premises, Fetter-lane, 250
Putney, Fairfax House, 263, 384, 517

QUARRELS, academic, 2
Queen's Hall, People's Palace, 716

RAFFAELLE Exhibition, Liverpool, 669
Railway Bill, the, 375
Railway schemes, London, 8
Railway working, safe, 268
Railway station, Stratford, 884
Railways in South Africa, 422
Railways and canals, 593, 630
Rain-water separators, 884
Rateability of machinery, 9
Records, municipal, Liverpool, 69
Relic at Austin Friars, a, 796
Report, Metropolitan Bd. of Wks., 863
Report on the Patent Office, 418
Report of Commission on Depression of Trade, 139
Reredos, Langport Church, 409, 935
Resistance of materials, 791
Restoration, suggested, of Edinburgh Castle, 638
Revolution, monument of the, 341, 495
Rhyl, St. John's Church, 316
Rim-lock, reversible, 162, 238
Roberts's rain-water separators, 884
Rogers's "Specifications," 172
Rood-screen, Warfield Church, 348
Rome: Tomb of Cardinal Matteo, 949; the Vatican, 59
Roof of Staple Inn Hall, Holborn, 865
Rouen: Cathedral, 426; Hôtel Bourgthérolde, 670, 785; old house at, 282
Rousseau, statue of, Paris, 602
Royal Academy: admissions to the Architectural School, 99; architecture at, 629, 666, 713, 759, 795, 827, 862, 897, 931; drawings for, 250; Exhibition of Old Masters, 71; pictures at the, 662, 714; quarrels at, 208; sculpture at, 670
Royal Commission on Depression of Trade, 139
Royal Holloway College, Chapel, 867
Ruprich-Robert, the late M., 828
Russia: studies in, 268; trade guilds, 103

SAINT CLEMENT DANES, Strand, 421
St. Ermin's Mansions, Westminster, 935
St. Hugh's apse, Lincoln Cathedral, 755
St. John's, Church, Rhyl, 316
St. Mark, lion of, Venice, 77, 142
St. Olave's Church, Old Jewry, 533
St. Paul's-churchyard, warehouses, 348
St. Saviour's Union Infirmary, Championhill, 316, 625, 638
St. Wandrille's Abbey, 854
Safe railway working, 268
Salon, the, Paris, 494, 668, 707, 760
Saloons of the steamship *Ormuz*, 849
Salt for removing snow, 147
Sanitation at Houses of Parliament, 178
Santa Maria dei Miracoli, Venice, 711, 758
School hygiene, 854
Schools: Basingstoke, 282; Northampton, 763

ARTICLES AND REVIEWS (continued):—

Scientific opinions on London sewage, 562
Screen, Warfield Church, 348
Sculpture: "The Brazen Serpent," 216; "The Enchanted Chair," 9; for the Harris Free Library, Preston, 116, 201; Renaissance and modern, 101; at the Royal Academy, 670
Separators, rain-water, 884
Sewage, London, 549, 562
Sewage, treatment of, 70, 132, 146, 929
Sewage disposal at Acton, 534
Sewage-ejectors at the Houses of Parliament, 178
Ship for London sewage sludge, 549
Shone's pneumatic sewage ejectors, 178
Shops: Brook-street, Grosvenor-square, 638, 688; Chelsea, 348; Fenchurch-street, 197, 216, 263
Shropshire, sketches in, 800
Siena: Cathedral, 3; doorway of the Palazzo Tolomei, 499
Site of new Bankruptcy Offices, 421, 929
Sketchbook, Architectural Assoc., 792
Sketches: in France, 282; in the Isle of Wight, 263; in Shropshire, 800
Sludge-ships for London sewage, 549
Smoking-room, Bolton Royd, 849
Snow, removal of, 147
Society in the Elizabethan Age, 553
Society of Arts' discussion on sewage, 146
Sorbonne, Paris, 495
South African railway scheme, 422
Spanish-place R.C. Church, 849, 867
Specifications, 101, 172
"Spring Time," decorative design, 179
Stables: Clipsham Hall, 602; Olympia, 99, 168
Staircase, Fairfax House, Putney, 263
Stained glass, designs for, 348, 602
Staple Inn, Holborn, 865
Statics, graphic and analytic, 432
Statues: Coligny, 197; Rousseau, 602
Steam boiler furnaces, warm blast, 954
Steam engine, the, 954
Steamship *Ormuz*, saloons, 849
Stoke Newington, Clissold Park, 312
Stone, preservation of, 859, 893, 952
Stowell Park, mansion at, 917
Stratford railway station, 884
Street paving, new method of, 163
Streets around the National Gallery, 900
Strength of: girders, 171; materials, 273
Stresses in girders, 458
Student's Column, the: Field Work and Instruments:—
Surveying Instruments: — Optical Square, 64; Vernier, 103; Box Sextant, 134; Line Ranger, 168; Cross Staff, 202; Prismatic Compass, 202, 236; Ball and Socket Stand, 236; Compass Clinometer, 237, 266; Circumferentor, the, 302, 332; Theodolite, the, 332, 369, 411, 449, 485, 521, 552, 588
Levelling Instruments:—Troughton & Simms's Level, 624; Dumpy Level, 656; Level in the field, the, 685; Level Book, the, 734; Cushing's Level, 786; Y Level, 818; Jahn's Level, 852; Stevenson's Level, 853; Sang's Level, 853; Doering's Level, 886; Hand Levels, 952; Pastorelli's Level, 922
Students' drawings at the Institute, 140
Studies in Russia, 269
Stuttgart, Garrison Church, 565
Subway, Glasgow, proposed, 422
Summer-house, Bolton Royd, 849
Sunderland Municipal buildings, 763
Sunningdale Church, 800
Superintending Architect's powers, 244, 310
Surveying, land, 201, 268
Surveying instruments (see "Student's Column")
Sweden, notes from, 498, 849
Switzerland, trade guilds in, 107
Sydney, Commercial Bank of, 585
TANAGRA terra-cottas, 148
Tarbotton, the late M. O., 410
Test House, Lambeth Workhouse, 585
Tewkesbury Abbey, 177
Theatre, the Casino, New York, 536
Theatres in London, control of, 280
Theodolite, the, 332, 369, 411, 449, 485, 521, 552, 588
Theory of abandonment of ancient lights, 529, 559, 622
Theory of elasticity, the, 273
Three decorative designers: Herbst, Le Blond, and Gentsch, 111
Timber conversion, 167
Tite Prize, design for a church, 216
Tombs: Maximilian I. at Innsbruck, 638; St. Maria in Ara Coeli, Rome, 949
Topography, London, 2
Tower, the Eiffel, Paris, 5, 210, 340, 668
Towers: Abbaye aux Hommes, Caen, 949; Pershore Abbey, 282, 331
Townhalls: Bethnal Green, 63; Chelsea, 115
Towns, historic: Bristol, 557, 633; Exeter, 337; London, 1
Trade, depression of, 139
Trade guilds of Europe, 107
Treatment of the London sewage, 549, 562
Treatment of sewage, 70, 132, 146, 929
Tunbridge Wells, house at, 535
Turkey, trade guilds in, 108
Two old Parisian jewellers, Jean Bourgnet and Pierre Bourdon, 6, 74
UNION OFFICES, West Bromwich, 565
Use of mortar during frost, 235
Utilisation of sewage, 929
VALCK, Gerard, decorative work by, 144
Vandyck at the Grosvenor Gallery, 108
Vases, Mycenæ, 491
Vatican, the Appartamenti Borgia, 59
Vauban, 166
Venice: lion of St. Mark, 77, 142; Santa Maria dei Miracoli, 711, 758
Ventilator, Boyle's vertical exhaust, 99
Vernier, the, 103
Vestibule, Casino-Theatre, New York, 536
Vestry-hall, Hampstead, 763
Victor Emmanuel Arcade, Milan, 448
Victorian architecture, 927
Virgilius Solis, decorative work of, 829
Visscher, C. J., decorative work by, 145
WAREHOUSES: Fetter-lane, 250; St. Paul's-churchyard, 348
Warminster Church, 250
Water-gate, Hoorn, 563
Water supply, artesian, 161
Water transit of heavy goods, 593, 630
Waterhouse, A., on the Milan Cathedral front competitions, 860
Welsbach incandescent gas-light, 265
Wesley Memorial Chapel, Epworth, 601, 656
West Bromwich Union Offices, 565
Westminster, St. Ermin's Mansions, 935
Westminster Abbey: Henry V. Chantry, 9
Whitehall Court, 752
Willesden Public Offices competition, 301, 332, 499
Wimbledon, premises at, 763
Window, Lucan, Co. Dublin, 602
Wire-pulling, professional, 457
Woeriot, Pierre, decorative work by, 145
Wood carving, 101
Woodhouse, F. W., on the Appartamenti Borgia, Vatican, 59
Woodwork in Cambridge, 308
Woolwich, new offices, 670
Work of some unknown designers, 277
Workhouses: Lambeth, 585; St. George's-in-the-East, 585
Workmen in Morocco, 417
Workmen's Club, Brynston, 917
Works by Ewan Christian, 423
Wren's City churches, 533
Wrought-iron sign, *Builder* Office, 499
"YANKERIES," the, 829
York Probate Registry, 348
Yorkshire Post Offices, Leeds, 282, 335

NOTES.

Abbeys: Jervaulx, 310; Kirkstall, 74
Abney, Captain, on "Sunlight Colours," 494
Academy, Mr. Furniss's skit on the, 597
Academy, Royal (see "Royal Academy")
Action of light on water-colours, 532
Acquisitions, British Museum, 420, 596, 710
Acropolis: restoration of the, 896; sculptures found in, 244, 930
Adam, Robert, a work by, 561
Adelaide Exhibition, the, 460
Adelphi Theatre, enlargement of, 110
Admiralty, proposed new, 309, 532, 595
Advertising architect, an, 210
Æsculapian bas-reliefs, 73
"Afloat and Ashore," 794
Agricultural Hall, Kensington, 142
Air of dwellings, carbonic acid in, 825
Aitchison, Prof., 419, 466
Albert Hall, pictures at, 827
Alcázar, Toledo, burning of, 111
Alexandra Park and Palace, 827
Allingham, Mrs., drawings by, 665
Ambleside Railway Bill, the, 309
American: iron and steel trade, 109, 110; pumping dredger, 110; railways, 142, 243
Aphrodite-Camirus vase, the, 665
Apollo statues, 378, 826
"Appreciation" of gold, 173
Apulio, vases from, 665
Arbitration practice, 110
Archbishop's palace at Maidstone, 826
Architects, registration of, 710
Architects and contracts, 459
Architects in Edinburgh, 826
Architects' fortunes, 931
Architectural competitions, 460; in Belgium, 758
Architectural Conference, the, 710
Architectural photographs for Adelaide Exhibition, 460
Architectural Room, Royal Academy, 666
Architectship, M.B.W., 143, 173
Architecture: London street, 711; Norman, 930; Roman, 277
Art: and handicrafts, 795, 827; and nature, 244; and the State, 668
Art teaching at Kensington, 377
Art-Union of London, plate for 1887, 4
Artesian well, Norland House, 561
Artillery House, Finsbury, 174
Artisans' industries in exhibitions, 143
Asia Minor, guide book for travellers, 143
Asphyxia at Chiswick, 209
Assarlik, discoveries at, 631
Asylum of St. Ann's Society, 827
Athens, excavations at, 4, 244
Australia, railways in, 276, 332
Bait for "the clergy," a, 210
Baker, Mr. B., on the Forth Bridge, 793
Bankers' signs, 861
Bankruptcy Offices Sites Bill, 929
Bas-reliefs, Æsculapian, 73
Baths, Roman, at Bath, 174
Belgium, architectural competitions in, 758
Bell, Sir Lowthian, on iron and steel trade prospects, 110
Beneharnum, 111
Berechurch Hall, Essex, 826
Bethlehem Hospital, 826
Blackwall tunnel, proposed, 459
Blake *v.* Land and House Property Corporation, 862
Blasting fiery mines, 142, 235
"Bleeding Heart-yard," 378
Bodies, rolling contact of, 664
Boeotia, statues of Apollo from, 826
Boni, Sig., on restoration at Venice, 896
Boulevard to Hampstead, 453, 459
Branch railways, 310
Breaches of covenant, 419
Bridges: Lambeth, 632; Newcastle, 632; Westminster, 276
Bridges, railway, in suburbs, 419
Bridging the Forth, 793
Bridgman, Mr., studies by, 460
British Coffee House, Cockspur-street, 561
British Museum acquisitions, 420, 596, 710
Brixton: Asylum of St. Ann's Society, 827; line of frontage at, 209
Brompton Oratory, chapel at, 340
Bronzes, exhibition of, 420
Brown, Prof., on nature and art, 244
Buccleuch statue, Edinburgh, 596
Building in London, 4
Buildings, registration of, 794, 895
Buildings of railway companies, 339
Burials near dwellings, 893
By-laws, model, 243
Canals: proposed Ceylon, 419; Manchester ship, 461, 631; Nicaraguan, proposed, 831; Panama, 110, 560, 861, 895
Canals, loss by neglect of, 73, 209, 339
Canals, proposed new, in England, 339
Candidates for Superintending Architectship, 143, 173
Carbonic acid in the air of dwellings, 825
Carnelly, Prof., on carbonic acid in the air of dwellings, 825
Carshalton House, Surrey, 665
Carving in granite, 665
Castle, Preston, 493
Castle-yard, Bankside, 561
Cathedrals: Dunblane, 420; Liverpool, 5, 74, 209, 249, 266, 419; Milan, 531, 596
Cement, German, 74, 164
Cement containing magnesia, 73
Cemeteries: Fareham, 175; Oldham, 861; Sutton, 111
Centenary Hall, Bishopsgate, 419, 735
Century Guild Hobby Horse, the, 596
Ceremonial keys, 711
Châlets de nécessité, Paris, 110
Chalfont, Milton's cottage at, 665
Chapels: Brompton Oratory, 340; Rowland Hill's, 561; Spa Fields, 277
Chapter Coffee-house, 896
Charges, railway, 209, 213, 339, 418, 531, 825, 896
Charing Cross, new street, 276, 334, 340, 421
Charter, new, for the R.I.B.A., 419
Chelsea Hospital Gardens, 460
Churches: Highgate, 931; Hornsey, 174; St. Lawrence-on-Sea, near Ramsgate, 930; Santa Maria dei Miracoli, Venice, 758; St. Mark, Venice, 665
Classical Review, the, 420
Clerkenwell, changes in, 277
Club, the Reform, 931
Coal-mines, safety blasting for, 142, 235
Coal supply, our, 419
Coal and Wine Dues, 173, 459
Cock Tavern, Fleet-street, 210
Cockspur-street, British Coffee-house, 561
Coldbath Fields Prison, 243, 277
Collignon, M., on Sculpture, British Museum, 711
Colours, sunlight, 494
Commissions, illicit, 597
Competition, foreign, 595
Competitions: architectural, 460; in Belgium, 758; Imperial Institute, 310; Oldham Cemetery, 831; Ramsey School Board, 711; Romford hospital, 711
Conference of Architects, the, 710
Congress, art, in Paris, 794
Coinage, the new, 930
Contracts: architects and, 459; the law of, 710
Cooke & Co.'s paperhangings, 174
Corinthian tablets, votive, 4
Cost of removal of snow, 4
Cottage, Milton's, at Chalfont, 665
Cottage hospitals, 378, 711
Covenants in deeds, 419
Coventry, St. Mary's Hall, 794
Cowes: sewerage of, 4; subway, 931
Crane, Mr. Walter, on art and handicraft, 795, 827
Cricket Club, Marylebone, 931
Crystal Palace, the, 243, 310, 377, 666
Cyanite, fireproof, 794
Dado, antiquity of the, 277
Dangers at Hyde Park Corner, 533
Daremberg, M., death of, 930
Decoration at Brompton Oratory, 340
Decorations, Jubilee, 929, 931
Delphi, excavations at, 596
Designs for Liverpool Cathedral, 5, 74, 209, 249, 266
Devey, the late George, 931
Dilapidations, 710
Directors, liability of, 531
Disasters: Opéra Comique, Paris, 897; Spitalfields, the, 173
Discoveries at Assarlik, 631
Distress and wages, 73
District Surveyors' returns, 4
Drain-testing, 210
Drainage, Holloway College, 378, 533
Drawings: by Mrs. Allingham, 665; of the Institute students, 111; by Sir James Linton and Mr. Orrock, 596
Dredger, American pumping, 110
Drew *v.* Josolyne, 710
Drill-hall for the Hon. Artillery Co., 174
Dudley Gallery, pictures, 244, 532
Dunblane Cathedral, 420
Duomo, Florence, 595
Dust and the Jubilee at Paddington, 210
Dust-destructor, Notting Hill, 378, 493
Duties of adjoining owners, 758
Duties of Vestries as to removal of snow, 493
EADS, the late Captain, 460
Earthquakes and jerry building, 379, 421
East End industries, 794
Economy at Ventnor, 897
Edinburgh: Buccleuch statue, 596; Exhibition of Royal Scottish Academy, 794; proposed free library, 209, 244, 826; Harrison Memorial, 596; Monument to Marquis of Montrose, 243, 595, 857; proposed Municipal buildings, 209, 244, 493, 597; National Portrait Gallery, 794; University Hall, 632
Edinburgh Architectural Association's Sketch-book, 862
Education, technical, 895
Electric lighting, fire risks of, 793
Electric Lighting Amendment Bill, 459
Emerson, Mr., and his plans for Liverpool Cathedral, 5, 74
Engineering, Indian, 532
Engineers, Italian, 758
Estates, Scotch, in the market, 793
Etching by Mr. A. H. Haig, 340
Examinations, Science and Art Department, 377
Excavations: at Athens, 4, 244, 930; at Delphi, 596; at Pergamos, 173
Excavator, new steam, 110
Exhibitions: East London Industries, 794; Institute of Painters in Water-Colours, 632; Manchester, 143; New English Art Club, 532; Newcastle, 632; Royal Scottish Academy, Edinburgh, 794; Société d'Aquarellistes Français, 533; Society of Painters in Water-Colours, 596
Explosion of kitchen boilers, 74, 104, 132
Façade of Milan Cathedral, 531, 536
Fahey, Mr., sketches by, 277
Fareham cemetery competition, 175
Fawcett Memorial, Westminster Abbey, 339
Federation by railway, 276, 332
Fees of District Surveyors, 4
Fencing of quarries, 276
Ferry, Woolwich, 378, 459
Fetter-lane, old houses in, 174, 561
Figaro-Salon, the, 897
Figures by Geo. Tinworth, 897
Finance and the Crystal Palace, 243
Finsbury, Artillery House, 174
Fire at the Alcázar, Toledo, 111
Fire Brigade, London, 209
Fire-risks of electric lighting, 793
Fireproof cyanite, 794
Fleet-street, Cock Tavern, 210
Florence: the Duomo, 595; sanitary condition of, 209
Fog-filters, 377
Foreign competition, 595
Forth Bridge, the, 793
Fortunes, architects', 931
Foulon, the Marquess de, 210
Free Libraries: Edinburgh, 209, 244, 826; Lambeth, 896
French Hospital and Dispensary, 826
French Railway Jubilee, 142
French water-colours in London, 533
Fresco by Mr. Herbert, R.A., 632
Friezes at Pergamos, 173
Frontage, line of, 209, 310, 377
Fulham Town-hall competition, 460
Furniss's "Mock Academy," 597
Gainsborough Gallery, 597
Galvanised iron water-pipes, 174
Gardens: Chelsea Hospital, 460 public, for metropolis, 73, 276, 560, 710 Tower of London, 493; Zoological, 931

NOTES (continued):—

German cement, 74, 164
Glasgow: Architectural Association Sketch-book, 310; sewage question, 109
Gold, "appreciation" of, 173
Goldsmiths' signs, 861
Goupil Gallery, 210
Government, the, and open spaces, 4
Government publications, 174
Government Railway Bill, the, 309, 339, 418, 493, 531, 664, 668, 825, 896
Græco-Roman sculptures, 4, 209, 596
"Grahtryx" drain-tester, 210
Granite, a large piece of, 665
Grave discovered at Thoricus, 930
Grave reliefs found at Rome, 826
Greece, a guide-book for archæological students in, 143
Greek: terra-cottas, 378; vases, 665, 862
"Green Ventilating System," the, 460
Greenwich and Blackwall Tunnel, 459
Grimthorpe, Lord, and St. Alban's Abbey, 759
Grub-street, a relic of, 340
Guide-book for travellers in Greece, 143
Guild of wool-staplers, the, 531
Guzman, M., on the Nicaragua Canal, 861

Haig, A. H., etching by, 340
Halls: Edinburgh University, 632; Wesleyan Centenary, 419, 735
Hammersmith, Ravenscourt Park, 561
Hampstead, boulevard to, 453, 459
Handicraft art, 795, 827
Harbours of refuge, 73
Harrison Memorial, Edinburgh, 596
Hatchett's Hotel, 209
Health, palaces of, 862
Hebrew Dramatic Club, Spitalfields, 173
Hele-Shaw, Prof., on the rolling contact of bodies, 664
Hellenic Society, the, 631
Herbert, Mr., fresco by, 632
"Hera of Samos," the, 561
Hermes of Praxiteles, the, 826
Herne Church, Kent, 896
Herz's micro-telephone, 862
Highways, management of, 561, 623
History of St. Mark's, Venice, 665
Holloway College, drainage at, 378, 533
Hornsey parish church, 174
Hospitals: French, London, 826; Wilton, 930
Hotel, Hatchett's, 209
Houndsditch, area, the, 173
Houses: Bleeding-Heart-yard, 378; Fetter-lane, 174, 561; old, in London, 310
House of Commons, fog-filters at, 377
House of Detention, Clerkenwell, 277
House-boats on the Thames, 494
Huxley, Prof., and Imperial Institute, 309
Hyde Park Corner "improvement," 533

Iberian railways, 174
Iddesleigh, Lord, statue to, 896
Illicit commissions, 597
Illuminations, Jubilee, 929
Imperial Institute, 3, 109, 244, 309, 310, 334, 340, 378, 459, 710
Improvement of roads, 73
"Improvement," Hyde Park Corner, 533
Improvements at Islington, 310
Increment, natural, 173
India, law of light in, 595
Indian engineering, 532
Industries, East London, 794
Inscriptions, Greek, 244
Institute of Architects: new Charter, 419; sessional papers, 310, 711; students' drawings, 111
Institute of Painters in Water-Colours, 632
Instruction, technical, 895
Iron trade in America, 109, 110
Iron water-pipes, galvanised, 174
Isle of Wight subway, Cowes, 931
Islington, improvements at, 310
Italian Engineers, Society of, 758

Jackson *v.* Farnham Water Company, 794
Jerry-building, earthquakes and, 379, 421
Jervaulx Abbey estate, 310
Jubilee: decorations and illuminations, 929, 931: suggestions, 73, 99, 174, 210, 453, 459, 665
Jubilee of French Railways, 142
Jurston-street schools, 861

Kensington: Agricultural Hall, 142; dust destructor, 378, 493
Kensington, South, art teaching at, 377
Keys, ceremonial, 711
Kilburn, open space at, 339
Kirkstall Abbey, 74
Kitchen-boiler explosions, 74, 104, 132

Labour Statistical Bureau, the, 339
Lambeth: bridge, 632; free libraries, 896
Land in New York, 531
Landmarks, London, 73
Landscapes by Mr. MacWhirter, 143
Law of: contracts, 710; light, 142, 758, 826; light in India, 595
Lectures, Royal Institution, 494, 664, 793
Legislation on electric lighting, 459
Leighton, Sir F., at the Institute of Architects' Dinner, 730, 759
Lesseps, Sir F. de, and the water supply of Tunis, 110
Lesson of the Spitalfields disaster, 173
Liability of directors, 531
Libraries free: Edinburgh, 209, 244, 826; Lambeth, 896
Light and water-colours, 532
Light, the law of, 142, 595, 758, 826
Lighting, electric, 793
Limburg-on-the-Lahn, 340
Limited Liability Companies, 531
Line of frontage, 209, 310, 377
Linton, Sir James, drawings by, 596
Lion of St. Mark, Venice, 142
Lisbon, improvements at, 595
Liverpool Cathedral designs, 5, 74, 209, 249, 266, 419
Local Government Board's Model By-laws, 243
Lombard-street signs, 861
London: building in, 4; fires in, 209; landmarks, obliteration of, 73, parks, 276, 372, 561; rebuilding of, remunerative, 173; sites, value of 340; street architecture, 711; topography, 632
Longmire, the late Mr., 759, 762
Lonsdale pictures, the, 931
Louvre, sculpture in the, 378, 561

MacManus *v.* Cooke, duties of adjoining owners, 758
MacWhirter, landscapes by, 143
Magnesia in cement, 73
Maidstone, Archbishop's Palace, 826
Management of highways, 561, 623
Manchester: Exhibition, 143; Ship Canal, 461, 631
Marylebone Cricket Club, 931
Medina Subway Act, the, 931
Memorial, the Alexander Thomson, 111
Memorial, the Fawcett, 339
Memorial, *in re* Liverpool Cathedral designs, 209, 266, 419
Memorials of Earl of Shaftesbury, 861, 931
Metropolitan Board of Works: line of frontage, 209, 334, 377; London parks, 276; street nomenclature, 276, 334, 340; Superintending Architectship, 143, 172
Metropolitan Fire Brigade, 209
Metropolitan Public Gardens Association, 73, 560
Micro-telephone, Herz's, 862
Milan Cathedral façade, 531, 586
Mileage of American railways, 142
Milton's cottage, Chalfont St. Giles's, 665
Mines, safety blasting for, 142, 235
Model By-laws, 243
Monuments: Marquis of Montrose, Edinburgh, 243, 595, 857; Mozart, 794
Moore, H., pictures by, 794
Mount-Temple, Lord, and the Office of Works, 896
Municipal Buildings, Edinburgh, 209, 244, 493, 597
Museum of United Service Institution, 419

National Agricultural Hall, 142
National Gallery and street improvements, 276, 421
National Health Society and the registration of buildings, 895
National Portrait Gallery, Edinburgh, 794
Nature and art, 244
Neglect of canals, 73, 209, 339
Negligence, liability of neighbours for, 832
Nell Gwynne Tavern, Strand, 110
Nemi terra-cottas, the, 74
New English Art Club, 460, 532
New York, value of land in, 531
Newcastle: Bridge, 632; Exhibition, 632
Newman, the late Alfred, 173
Niagara, utilisation of water-power at, 72
Nicaragua Canal, proposed, 861
Noble Gift to Lambeth Free Libraries, 896
Norland House, artesian well at, 561
Norman architecture, 930
Notting Hill dust destructor, 378, 493

Obliteration of London landmarks, 73
"Occidental" Tavern, the, 494, 555
Office of Works, the, 896
"Old Masters," 930
Oldham Cemetery competition, 861
Olympia, sculptures of, 664
Open spaces, 4, 276, 339, 560, 710
Opera Comique disaster, the, 897
Orrock, Mr., drawings by, 596
"Outsiders" and the Royal Academy, 210
Overcrowding at Chiswick, 209, 561

Paddington's Jubilee proposal, 210
Painted Greek vases, 665
Palace, Archbishop's, at Maidstone, 826
Palace at Venice, a, 896
"Palaces of Health," 862
Panama Canal, 110, 560, 861, 895
Paperhangings, "Golden Lustre Silk," 174
Papers: on Indian Engineering, 532; at the Institute of Architects, 310, 711
Paris: Art Congress, 794; *chalets de nécessité*, 110
Parks, London, 276, 372, 561, 710
Parliament and technical education, 895
Paternoster-row, Chapter Coffee-house, 896
Paton's, Mr., discoveries at Assarlik, 631
Pausanias, Kalkmann's work on, 142
Payment for quantities, 378
"Penny-wise and pound-foolish," 897
People's Hall for Southwark, 493
Pergamene sculptures, 420
Pergamos, 173
Perseus and the Grey Sisters, 758
Philanthropy, a new form of, 561
Photographs for Adelaide Exhibition, 460
Pianoforte designed by Mr. Tadema, 794
Picardy, sketches in, 420
Piccadilly, the Western Exchange, 632
Pictures: at Albert Hall, 827; by Bonnington, Cattermole, Holland, Nash, De Wint, and William Hunt, 532; at the Dudley Gallery, 244; by Mr. E. H. Fahey, 277; at the Goupil Gallery, 210; Institute of Painters in Water Colours, 632; Lord Lonsdale's, 931; by Henry Moore, 794; by Old Masters, 930; Société d'Aquarellistes Français, 533; Society of British Artists, 532; Society of Painters in Water Colours, 596; Tooth & Sons' Spring Exhibition, 420; Wallis's Gallery, 460; by Mr. Watts, R.A., 532
Pilditch's paper on dilapidations, 710
Pitt dole, the, 826
Plate of the Art-Union of London, 4
Plébiscite, Edinburgh Municipal Buildings, 493
Popular views of architecture, 666
Portrait Gallery, Edinburgh, 794
Poseidon, a statue of, 209
Position of the Crystal Palace, 243, 310, 377
Postage stamps, the new, 277
Powers of Superintending Architect, 310, 377
Praxiteles, the Hermes of, 826
Preston Castle, 493
Prisons, Middlesex, 243, 277
Professor Aitchison, 419, 466
Projects, Jubilee, 73, 99, 174, 210, 453, 459, 665
Properties for sale, 793, 861, 897, 930
Publications, Government, 174
Pumping dredger, American, 110

Quantities, payment for, 378
Quantities and contracts, 459
Quarry-fencing Act, the, 276
Quarry-worked stone, 420
Quay-walls at Rouen, 110

Raggi's statue of Sir Arthur Kennedy, 143
Railway: Bill, Ambleside, 309; Bill, the Government, 309, 339, 418, 493, 531, 664, 668, 825, 896; bridges, suburban, 419; charges, 209, 243, 339, 418, 493, 531, 825, 896; freights, 73, 209, 339, 825; Jubilee, French, 142; management in America, 243; mileage in America, 142
Railway & Canal Traders' Association, 825
Railway station architecture, 111
Railways: in Australia, 276, 332; branch, 310; and London open spaces, 4; and sanitary by-laws, 339; Spanish, 174; in Sweden 243; Wimbledon and West Metropolitan, 419
Raleigh House, Brixton, 665
Ramsey School Board Competition, 711
Ramsgate, proposed new road, 861
Ravenscourt Park, 561
Rebuilding of London, 173
Reform Club, the, 931
Reform at the Royal Academy, 210
Regent's Park: property at, 931; to Hampstead, proposed boulevard, 453, 459
Registration of: architects, 710; buildings, 794, 895
Relief works at Tottenham, 110
Reliefs found at Rome, 826
Removal of snow, 4, 74, 493
Restoration: of Dunblane Cathedral, 420; at Herne Church, 896; at Venice, 896
Richardson, Dr., on "Winter Palaces of Health," 862
Richmond, the Terrace Gardens, 827
Riviera, the earthquake on the, 421
Road to unite Ramsgate Cliffs, 861
Roads, management of, 561, 623
Roads Improvement Association, the, 73
Rolling contact of bodies, 664
Roman: architecture, 277; baths at Bath, 174; remains at Lescar (Basses Pyrénées), 111
Rome: grave reliefs found at, 826; Society of Italian Engineer, 758
Romford cottage hospital, 711
Rostellan Castle, Ireland, 861
Rouen, quay-walls at, 110
Rowland Hill's Chapel, 561
Rowland's Old Castle School, Bankside, 561
Royal Academy: Architectural Room, 666; New Academicians and Associates, 111; "outsiders," 210; Professorship of Architecture, 419, 466
Royal Scottish Academy, Edinburgh, 794
Royal Institution lectures, 494, 664, 793
Ruprich-Robert, the late M., 793, 930

Saint Alban's Abbey, 759
St. George's, Hanover-sq., Vestry-hall, 711
St Mark's, Venice, 665
St. Mark, the lion of, Venice, 142
St. Martin's-lane and church, 421
St. Mary's Hall, Coventry, 794
Sale of: Hatchett's Hotel, 209; Jervaulx Abbey estate, 310
Salford, the Wilton Hospital, 930
Salisbury, Lord, on state patronage of art, 666
Sanitary Aid Associations, 561
Sanitary condition of: Florence, 209; railway buildings, 339
Sanitary defects at Chiswick, 209
Sanitary registration of buildings, 794, 895
Sanitation at Warsaw, 174
Santa Maria dei Miracoli, Venice, 758
Sarcophagus, terra-cotta, in British Museum, 711
Scenery, theatrical, 494
Schools: Jurston-street, 861; Ramsey, 711
Science and Art Department, 377
Scientific News, 494
Scotch estates for sale, 793
Scott, J. O., and Seddon, J. P., and the Liverpool Cathedral designs, 209
Sculptures: found in the Acropolis, 244, 930; at the British Museum, 420, 596, 711; Græco-Roman, 4, 209, 596; in the Louvre, 378, 561; of Olympia, 664; Pergamene, 420
Sewage question at Glasgow, 109
Sewerage: Cowes, 4; Warsaw, 174
Shaftesbury memorials, 861, 931
Sheffield water-supply, 493
Ship-canals: Ceylon, proposed, 419; Manchester, 461, 631
Signs of Old Lombard-street, 861
Simmons *v.* Kinsrinki, 142
Sites: of new Bankruptcy Offices, 929; of Bethlehem Hospital, 826; of Coldbath Fields Prison, 243; of the Imperial Institute, 3, 109, 244, 309, 340, 459; for Temple Bar, 141, 173
Sketch-books: Edinburgh Architectural Association, 862; Glasgow Architectural Association, 310
Sketches: by Mr. E. H. Fahey, 277; by Henry Moore, 794; by Mr. David Murray in Picardy, 420; by Mr. Wimperis, 420
Smoke-test for drains, 210
Snow, the removal of, 4, 74, 493
Society of British Artists, 532
Society of Italian Engineers, 758
Society of Painters in Water-Colours, 596
South-Eastern Railway and the Imperial Institute, 710
South-Western Railway, new stations, 111
Southwark, People's Hall for, 493
Spa Fields Chapel, 277
Spanish railways, 174
Spitalfields disaster, the, 173
Stage appliances, 494
Staircases at "Olympia," 142
Stamps, the new, 277
Staple, the Wool, 531
State, the, and art, 666
Stations on the South-Western line, 111
Statistical Bureau, Labour, 339
Statues: of Apollo from Bœotia, 826; discovered at Athens, 4; Buccleuch, Edinburgh, 596; Lord Iddesleigh, 896; Sir Arthur Kennedy, 143; discovered at Rome, 174, 209; Victor Emmanuel, Venice, 711; in the Louvre, 378, 561
Steam excavator, a new, 110
Steel trade, American, 109, 110
Stone, Mr. Marcus, 111
Stone, quarry-worked, 420
Stones of Temple Bar, the, 857, 885, 931
Strand: Nell Gwynne Tavern, 110; "Occidental" Tavern, 494
Street at Charing Cross, new, 276, 334, 340, 421
Street architecture, London, 711
Students' drawings at the Institute, 111
Studies by Mr. Bridgman, 460
Subway at Cowes, 931
Sunlight colours, 494
Superintending Architect's powers, 310, 377
Superintending Architectship, M.B.W., 143, 173
Surrey Chapel, 561
Sutton Cemetery inquiry, the, 111
Swedish railways, 243

Tablets, votive Corinthian, 4
Tadema, A., pianoforte designed by, 794
Taverns: "Nell Gwynne," 110; "Occidental," 494, 555
Technical education, 895
Telephony, 862
Temple Bar, 141, 173, 857, 885, 931
Temple of Zeus at Olympia, 664
Tenders for designs, 794
Terra-cotta sarcophagus, British Museum, 711
Terra-cottas: Greek, 378; from Nemi, 74
Terrace Gardens, Richmond, 827
Testing drains, 210
Tests of German cement, 74, 164
Thames, house-boats on the, 494
Theatres: Adelphi, 110; new, in the Strand, 494, 555; unburnable, 897
Theatrical scenery, 494
Thoricus, grave discovered at, 930
Tinworth, Geo., work by, 897
Topographical Society of London, 632
Torlonia, Prince, and Lake Fucino, 110
Tottenham relief-works, 110
Tower Gardens, the, 493
Tower-hill and Bridge, 73
Town-hall, Fulham, 460
Transactions of the Institute, 310, 711
Translations of Pausanias, 142
Trees from a sanitary point of view, 595
Tunis and its water supply, 110
Tunnel, Blackwall and Greenwich, 459

Unemployed, the, 73
United Service Institution, 419
University of Edinburgh, 632
Umpires in arbitrations, 110
Upper-street, Islington, 310

Value of land in New York, 531
Valuers and arbitrators, 110
Vases, Greek, 665, 862
Venice: Church of Santa Maria dei Miracoli, 758; Church of St. Mark, 665; the lion of St. Mark, 142; restoration at, 896; statue of Victor Emmanuel, 711
Ventilating system, the D.C. Green, 460
Ventnor, economy at, 897
Vestry-hall, St. George's, Hanover-sq., 711
Victor Emmanuel statue, Venice, 711
Votive Corinthian tablets, 4
Vulliamy's artesian well, 561

Wages at home and abroad, 73
Wallis's Gallery, 460
Walker Art Gallery, Liverpool, 597
War Office, proposed new, 309, 532, 595
Warsaw, sanitation at, 174
Water-colours, light and, 532
Water-colours, French, in London, 533
Water-pipes, galvanised iron, 174
Water-power at Niagara, 72
Water-supply: Sheffield, 493; Tunis, 110; Warsaw, 174
Watts, works by G. F., 532
Well, artesian, Norland House, 561
Welsh coal, 419
Wesleyan Centenary Hall, 419, 735
Western Exchange, Piccadilly, 632
Westgarth, Mr., and London improvements, 173
Westminster Abbey, Fawcett Memorial, 339
Westminster Bridge, 276
Whistlerism, 532
Wigram *v.* Fryer, 826
Wilton Hospital, Salford, 930
Wimbledon and West Metropolitan Railway, 419
Wimperis, Mr., sketches by, 420
Winter Palaces of Health, 862
Women's Industries in Exhibitions, 143
Wool-Staplers' Guild, the, 531
Woolwich Ferry, 378, 459
Work by Geo. Tinworth, 897
Worms, Baron de, on railway charges, 209
Wright *v.* Wallasey Local Board, 896
Wyld, the late James, 631

Zoological Gardens, the, 931

REPORTS OF MEETINGS, PAPERS READ, LAW CASES, ETC.

Academy, Royal (see "Royal Academy")
Actions:—Blake *v.* Land and House Property Corporation, negligence, 882; Bovill *v.* Gibbs & Imber, Building Act case, 410, 449; Carter *v.* Spicer, light and air, 265; Carus-Wilson *v.* Green, arbitrators and valuers, 110; Davies Bros. & Co. *v.* Davies, breach of covenant, 419; Drew *v.* Josolyne, clauses in contracts, 710; Elkington *v.* Smee, Building Act case, 884; Fletcher *v.* Kirk & Randall, labourers' wages, 435; Great Northern Railway Co. *v.* Postmaster-General, compensation, 851; Humpherson *v.* Syer, infringement of patent, 449; Jackson *v.* Farnham Water Company, intermittent supply, 794; Kaye *v.* Chubb & Sons, push and pull-locks, 784; MacManus *v.* Cooke, duties of adjoining owners, 758; Meeson *v.* Connell, Building Act case, 131; Metropolitan Board of Works *v.* Calcott, right of District Surveyors to enter dwellings, 63, 101; Metropolitan Board of Works *v.* Gill, width of street, 201; Metropolitan Board of Works *v.* Smith, Building Act case, 520; Metropolitan Board of Works *v.* Viney, width of street, 265; Payne *v.* Holmes, Building Act case, 131; Regina *v.* Tyne Boiler Works Company, rateability of machinery, 9; Simmons *v.* Kinsrinki, light and air, 142; Wallen *v.* Hedges, Building Act case, 132; Wigram *v.* Fryer, light and air, 826; Wood *v.* Tendring Union Sanitary Authority, claim by a contractor, 100; Wright *v.* Wallasey Local Board, burials near dwellings, 896
Adams, C. A., on architectural instruction, 130
Adams, H., on chains, 813
Adelaide Exhibition, 215, 496
Aitchison, Prof.: on architectural education, 635, 655, 699; on the architecture of Dalmatia, 920; on balustrades, 381; on doorways, 346; on windows, 380
Aldridge, C.: on architectural education, 740; on architectural federation, 744; on the Liverpool Cathedral Designs memorial, 249; on the registration of architects, 749
Allen, Romilly, on sculptured crosses in the Isle of Man, 198
Anderson, J. Macvicar: on the new Charter, R.I.B.A., 422; on the Jubilee Exhibition at Adelaide, 215; on the Liverpool Cathedral Designs memorial, 299; on the late Sir Horace Jones, 799; on the new street at Charing Cross, 215
Archæological Societies: British Archæological Association, 137, 198, 270, 335, 414, 464, 626, 813, 924; Chester, 104; Dumfries and Galloway Antiquarian Society, 555; Society of Antiquaries of Scotland, 626; St. Paul's Ecclesiological Society, 205
Architect, learning to be an, 702
Architects and contracts, 423, 459, 461, 465
Architects, French, in congress, 898, 952
Architects, registration of, 745
Architects' Benevolent Society, 425
Architectural Association, the:—Architect and Contractor, 461, 465; "The Architecture of Art," 313, 315, 365; Art and Commercialism, 313, 315, 365; the Complement of Architectural Instruction, 113, 130; Election of officers, 816; House Sanitation, 198, 264, 331, 369; Masonry classes, 488; Members' *soirée*, 554; reminiscences of excursions, 731; Students' Notes in Gloucestershire, 814, 816, 851; Thoughts on Education, 635, 654; Welsh churches, 382
Visits: to Banstead, 951; Cambridge, 900, 951; Chiswick Church, 798, 851; Church of the Sacred Heart, Wimbledon, 301; R.C. churches at Clapham and Brixton, 409; Dent & Hellyer's works, 655; Ewhurst, 850; National Gallery, 466; National Liberal Club, 736; St. Bartholomew's Church, Smithfield, 655; St. Thomas's Seminary, Hammersmith, 798; Sion College, 366
Architectural Conference (see "Conference of Architects")
Architectural education, 635, 654, 694, 696, 699, 701, 739
Architectural Examination, the, 597
Architectural federation, 600, 742
Architectural instruction, the complement of, 113, 130
Architectural photographs, Adelaide Exhibition, 215
Architectural School, Royal Academy, 99, 701
Architectural Societies: Auckland Institute of Architects, N.Z., 448; Birmingham Architectural Association, 104, 163, 235, 299, 348, 448, 585, 736; Edinburgh Architectural Association, 163, 448, 519, 585, 637, 763; Glasgow Architectural Association, 131, 200, 520; Glasgow Institute of Architects, 529; Leeds and Yorkshire Architectural Society, 464, 637, 924; Leicester Society of Architects, 249; Liverpool Architectural Society, 249; Manchester Architectural Association, 163, 235, 312, 390, 520, 600; Manchester Society of Architects, 200; Northampton and Oakham, 131; Northern Architectural Association, 64, 637; Sheffield, 787; York Architectural Assoc., 131
Architecture of art, the, 313, 365
Architecture of Dalmatia, 917
Architecture, Gloucestershire, 814, 816, 851
Architecture, Greek, 248, 299
Architecture and the handicrafts, 683, 691
Architecture, instruction in, 695
Architecture in Italy, 163
Architecture, Japanese, 342
Architecture, Mediæval, 281
Architecture, mud, 216, 233
Architecture in New Zealand, 448
Architecture, Roman, 280
Architecture, Ruskin's views on, 235
Architecture and sanitary science, 245
Architecture in the South of France, 448
Architecture, studio for, 700, 733, 740, 785
Architecture at University College, 924
Art, the architecture of, 313, 365
Art and commercialism, 313
Art-Union of London, 684
Artisans' dwellings, 372; Artisans', Labourers', and General Dwellings Co., 454
Artists' Benevolent Fund, 800
Artists' General Benevolent Inst., 762
Assistant Architect, Metropolitan Board of Works, 521
Association of Municipal and Sanitary Engineers, 97, 129, 372, 730, 882
Association of Public Sanitary Inspectors, 99, 249, 409, 550, 732
Associations of Master Builders, 234, 347
Attfield, Prof., on sewer ventilation, 334, 367
Auckland Institute of Architects, N.Z., 448
Aveling & Porter's works, Rochester, 920

Babcock, Prof.: on instruction in architecture, 695, 739; on new materials and inventions, 741
Baggallay, F. T., on building with beauty, 464
Baker, A., on Welsh churches, 382, 383
Bailey-Denton, Mr., on the London sewage question, 583
Balustrades, 381
Band-saws, 813
Barry, C.: at the Institute dinner, 730; on the Royal Gold Medal, 729; on the new Superintending Architect, 216
Bateman, James, on sewage irrigation for small areas, 99
Bath, Roman baths at, 104, 174
Beam, old, at Colchester, 496
Beams and girders, 424
Beardmore, W. L., on drainage, 246, 265
Beauty in building, 464
Birmingham: Architectural Association, 104, 163, 235, 299, 348, 448, 585, 736; Master Builders' Association, 626; students, Institution of Civil Engineers, 238, 304, 658
Bishop, W., on registration of plumbers, 867
Blashill, Mr., and the Institute, 215
Booth, A. C., Bulmer, on contracts, 465
Booth, L., on the Institute and architectural education, 701
Boston, W. J., on colour in decoration, 131
Boulnois, A. P., on Portsmouth drainage, 882
Boyd, R. N., on Panama Canal, 555, 560
Boyle, Robert, & Son (Limited), 136, 657
Brett, J., on architecture and handicrafts, 683
Brickfields, sale of, Tilbury, 414
Bricks and brickwork, 518, 551
Bridge, the Forth, 602
Brightmore, R. W., on the flow of water, 169
British Archæological Association, 136, 198, 270, 335, 414, 464, 626, 813, 924
Brock, E. P. L., on wood-carving, 330
Brown, Prof. Baldwin, on the architecture of Dalmatia, 919
Builder's report of the Conference of Architects, 816
Builders' Benevolent Institution, 850
Builders' Clerks' Benevolent Institution, 367, 484, 498
Builders' Foremen and Clerks of Works' Provident Institution, 331
Building Act, Metropolitan, cases under:—Excess of cubical contents, 131; Neglect to give notice of alterations, 132; Open space at rear of buildings, 410, 449; Tobogganing slides, 884; Width of street, 201, 265; Wooden verandahs, 131
Building contracts, 423, 459, 461, 465
Building operatives at Toynbee Hall, 334
Buildings, registration of, proposed, 131, 238, 304, 372, 453, 524, 585, 669, 670, 762
Burt, George, presentation to, 200
Bute, Marquis of, on Mountstuart cist, 626
By-laws, building, infringement of, 622

Campbell, J. J., on marine engines, 590
Cambridge visit, Architectural Assoc., 951
Canal, Panama, 555
Canvey Island sewage scheme, the, 583
Carpenter, Dr. A.: on disinfection, 550; on the London sewage question, 584
Carpenters, English, and foreign competition, 383
Carpenters' Hall Lectures (see "Lectures at Carpenters' Hall")
Carving, wood, 329
Cases under Metropolis Local Management Act, 201, 265, 520
Cases under Metropolitan Building Act (see "Building Act")
Castle, Dirleton, 637
Cates, A., on architectural education, 694, 739, 740, 785
Cathedral, Liverpool, designs, 249, 299, 347
Cathedral, Throndjem, 519, 586
Central Assoc. of Master Builders, 347
Chadwick, D., on Holloway College, 497
Chadwick, E., on sanitary work, 249, 732
Chains, 813
Chambers, F., on joinery, 462
Charing-cross, the new street, 215, 276
Charter, Supplemental, for the R.I.B.A., 422, 652
Chemistry of wood, the, 564
Chester Archæological Society, 104
Christian, E.: at the Institute dinner, 730; and the Royal Gold Medal, 729
Chubb, H. W., on locks and keys, 163
Church, Prof., on chemistry of wood, 564
Churches of Gloucestershire, 814, 816, 851
Church of St. Bartholomew-the-Great, 655
Churches, R.C., Clapham and Brixton, 409
Church of Sacred Heart, Wimbledon, 301
Churches, Welsh, 382
Circular and band saws, 813
Cist found at Mountstuart, 626
City and Central Dwellings Co., 372
City and Guilds of London Institute, 732
Civil and Mechanical Engineers' Society, 246, 555, 602, 813, 820
Clerks of Works' Association of Great Britain, 366
Club, the United Arts, 162
Collard, A. O., on architectural education, 655
College, Royal Holloway, 496
College training for architects, 698
Collins, H. H., on new materials, 742
Colour in decoration, 131
Commercialism and art, 313, 365
Compensation case, 851
Competition, foreign, in carpentry, 383
Complement of architectural instruction, the, 113, 130
Conder, J., on Japanese architecture, 342, 345
Conference of Architects, General: Architectural Education, 699, 785, 739; Architectural Federation, 742; Architectural School of the Royal Academy, 701; Architecture and the Handicrafts, 683, 691; *Builder* report, the, 816; College training for architects, 698; *Conversazione*, 754; Course of instruction in architecture, 695; Institute, the, and architectural education, 701; Learning to be an architect, 702; New materials and inventions, 703, 741, 785, 885, 921; Registration of architects, 745; Studio for architecture, a, 700, 733, 785; Technical education of the students of architecture, 696
Visits: to City and Guilds of London Institute, 732; Collingham Gardens and Kensington Court, 754; Drainage works of the Houses of Parliament, 733; Holloway College, 754; Hotel Victoria, 753, 787, 817; National Gallery, 733; National Liberal Club, 752, 781, 800; Royal Academy, 733; Whitehall Court, 752
Conference, sanitary legislation, 585, 669, 762
Congress of French Architects, Paris, 816, 898, 952
Connon, J. W., on the registration of architects, 745
Contractor, architect and, 423, 459, 461, 465
Contractors' actions at law, 100
Contracts, architects' functions in relation to, 423, 459, 461, 465
Corfield, Prof., on house sanitation, 198, 264, 331, 369
Council's Report, R.I.B.A., 651
Crane, Walter: on architecture and handicrafts, 684; on art and commercialism, 313, 365
Cresswell, H. O.: on architectural education, 654; on art and commercialism, 365
Cromer, land at, 923
Crosses, early sculptured, Isle of Man, 198
Crossland, W. H., on the Holloway Sanatorium and College, 496
Croydon School of Art, 484
Crypt of Glasgow Cathedral, 520
Crystal Palace School of Engineering, 637
Cunninghame, C. G., on Liberton House, 585
Cuxton, G. A. P., on contracts, 465

Dalgleish, L., on Trondjhem Cathedral, 519
Dalmatia, architecture of, 917
Damp-courses, 622
Darbishire, C. H., on the ventilation of sewers, 205
Dashwood, F., on English carpenters and foreign competition, 383
Davenport, J. A., on rural sanitation, 409
Dawson, H.: on architectural federation, 744; on the late Sir Horace Jones, 799
Decay of wood, 564
Defects of the Public Health Acts, 97, 129
Definition of line of frontage, 409
Dent & Hellyer's works, 655
Derby, Earl of, on art, 685
Designs, Liverpool Cathedral, 249, 299, 347
Dinners: Artists' Benevolent Fund, 800; Association of Public Sanitary Inspectors, 249; Builders' Clerks' Benevolent Institution, 484, 498; Builders' Foremen and Clerks of Works' Institution, 331; Civil and Mechanical Engineers' Society, 820; Clerks of Works' Association, 366; Glasgow Institute of Architects, 520; Institute of Architects, 730, 759; Institute of Builders, 366; John Mowlem & Co., 200; United Arts' Club, 162; York Architectural Association, 131
Dirleton Castle, 637
Disinfection in theory and practice, 550
Disposal of the London sewage, 583
District Surveyors: elections of, 216, 453, 498, 554; and the right of entry, 63, 101
District Surveyors' duties, 270, 304
Doorways, 346
Doulton, J., on fireproof floors, 742
Drainage, house, 248
Drainage of the Houses of Parliament, 733, 796
Drainage of Portsmouth, 882
Drainage of Westminster, 796
Drysdale, Dr., on the London sewage question, 584
Dumfries and Galloway Antiquarian Society, 555
Dust nuisance at Paddington, 105
Duties of District Surveyors, 270, 304
Dwellings, artisans', 372, 454

Edinburgh Architectural Association, 163, 448, 519, 585, 637, 763
Education, architectural, 113, 635, 654, 694, 695, 696, 699, 701, 739, 785
Education of engineers, 249
Education, technical, of architectural students, 696
Election of Superintending Architect, M.B.W., 215, 234
Elections of District Surveyors, 216, 453, 498, 554
Emden, W., on the registration of architects, 751
Emerson, W., on the architecture of Dalmatia, 919
Engineering at the Crystal Palace, 637
Engineering in relation to sanitary science, 245
Engineers, education of, 249
Engines, marine, 590
English carpenters and foreign competition, 383
Evans, A. J., on the architecture of Dalmatia, 919
Examination in Architecture, the, 597
Examinations: Municipal Engineers' Association, 730; Surveyors' Institution, 200, 669
Excavations at Vinovia, 626
Excursions, Architectural Association, 731
Exhaust pump, a new, 485
Exhibition, Adelaide, 215, 496
Explosions of kitchen boilers: inquests, 104, 132

Farman, E., on the registration of architects, 752
Fayrer, Sir J., on sanitary legislation, 585
Federation, architectural, 600, 742
Finn, A., on mud architecture, 233
Fires in public buildings, 270
Fletcher, B.: on clerks of works, 366; on English carpenters and foreign competition, 383
Floors, 200
Flow of water, the, 169
Forth Bridge, the, 602
Foundations of the Forth Bridge, 602
Fowler, C., on late Sir Horace Jones, 799
Fox, W., on well-water supply, 653
Freeman, Joseph, presentation to, 200
Freeman, W. R., on builders' clerks, 367
French architects, congress of, 898, 952
Frontage, line of, 409
Funeral of Sir Horace Jones, 849

Gardner, J. S., on wrought iron, 334, 348
Gibson, W. A., on lifts, 742
Girders and beams, 424
Glasgow: Architectural Association, 131, 200, 520; Institute of Architects, 520
Gloucestershire, notes in, 814, 816, 851
Godwin Bursary, 161

REPORTS, &c. (continued) :—

Godwin, G.: at the Art-Union, 685; at the Artists' Benevolent Fund dinner, 800; on registration of plumbers, 867; on wood carving, 329
Gold Medal, the Royal, 299, 423, 729
Gotch, J. A.: on architectural federation, 743; on architectural instruction, 130, 654, 740; on art and commercialism, 365; on contracts, 465; on learning to be an architect, 702; on Welsh churches, 383
Gough, H. R., on the registration of architects, 751
Government Railway Bill, 668, 736, 819
Grantham, R F., on drainage, 798
Greek architecture, 248, 299
Greek sculpture as expressive of the emotions, 175, 214
Grissell Gold Medal, 161, 730
Grover, J. W., on water supply from wells, 653

Hall, C. R. J., on architectural education, 655
Hall, E. T.: on architectural federation, 743; on the registration of architects, 747; on new materials and inventions, 742
Haité, G. C., on wood-carving, 330
Hammersmith, St. Thomas's Seminary, 798
Hammond, W. F., on architecture in New Zealand, 448
Handicrafts, architecture and the, 683, 691
Hansard, O., on Japanese architecture, 345
Harvey, L., on architectural education, 130, 654
Hayward, C. F., on Holloway College, 497
Health, Prof. Attfield on, 334, 367
Hellyer, S. S., on house sanitation, 264
Heraldry in modern art, 348
Hill, Arthur, on college training for architects, 698
Holden, J., on architectural federation, 742
Holloway Sanatorium and College, 496
Honeyman, J., on floors, 200
Hooper, F.: on architectural education, 655; on art and commercialism, 365
Hooppell, Rev. Dr., on Vinovia, 626
House drainage, 246
House fronts, timber, 463
House sanitation, 198, 264, 331, 369
Houses of Parliament, drainage works, 733, 796
Housing the working-classes, 372, 454

I'Anson, E.: on the Holloway College, 497; on the Royal Gold Medal, 729; at the United Arts Club, 162
Imperial Institute, the, 299
Infringement of building by-laws, 622
Inquests, *re* kitchen-boiler explosions, 104, 132
Institute, Royal, of British Architects:—Architects' functions in relation to building contracts, 423; Architecture of Dalmatia, 917; Award of studentships, medals, and prizes, 161, 215, 729; Carved oak beam at Colchester, 496; Conference of Architects, 597, 691; Death of Sir Horace Jones, 796, 799, 849; Dinner, 730, 759; Drainage of the City and Palace of Westminster, 796; Election of Council, 668, 733; Examination in Architecture, 597; Federation Committee's Report, 600, 743; Holloway Sanatorium, 496; Imperial Institute, the, 299; Japanese architecture, 342; Jubilee address, 730; Liverpool Cathedral designs, 299, 215, 347; Mud architecture, 216, 233; New street at Charing Cross, 215, 276; Notes on Greek architecture, 299; Obituary, 215, 299, 347, 796, 799; Photographs for the Adelaide Exhibition, 215, 496; Portrait of Mr. Ewan Christian, 216; Presentation of Royal Gold Medal, 729; Report of the Council, 651; Royal Gold Medal, 299, 423, 729; Superintending Architect, the new, 215; Supplemental Charter, 422, 652
Institute of Builders, 366
Institution of Builders' Foremen and Clerks of Works, 331
Institution of Civil Engineers: Annual report, 864; Birmingham students, 238, 304, 658; Papers at, 653, 813; Roll of members, 555
Instruction, architectural, 113, 130, 695
Inventions, new, 703, 741, 785, 885, 921
Iron, wrought, 334, 348
Iron, Hardware, and Metal Trades' Pension Society, 277
Irrigation, sewage, 99
Italy, architecture in, 163

Jackson, T. G., on the architecture of Dalmatia, 917, 920
Japanese architecture, 342
Jennings, J., on the late R. C. Hussey, 215
Joinery, 462
Jones, the late Sir Horace, 799, 849
Jubilee suggestion at Paddington, 105
Julian, G. R., on architectural education, 655

Kennedy, Prof., on girders and beams, 424
Kerr, Prof.: on architectural education, 740; on architectural federation, 743; on architecture and handicrafts, 683; on building contracts, 423, 459; on drainage, 798; on Greek architecture, 301; on mud architecture, 233; on the new Superintending Architect, 215
King's-cross station roof, 882
Kitchen-boiler explosions: inquests, 104, 132
Knill, Ald., on registration of plumbers, 866

Land, sales of:—Chelsea, 335; Chingford, 488; Cromer, 923; Ealing, 335; Finchley, 335; Hants, 66; Harold Wood, 669; Harrow, 335; Middlesex, 888; Oxted, 625; Pinner, 956; Surrey, 66, 888; Teddington, 335; Thames Embankment, 488; Tilbury, 414; Upton, 372; Walthamstow, 669; Wimbledon, 625
Lands, surplus, Metropolitan Bd. of Wks., 269
Learning to be an architect, 702
Leaseholds, Sir John Kelk's, London, 414
Lecky, W. E. H., on sanitary work, 249
Lectures at Carpenters' Hall:—Bricks and Brickwork, 518, 551; English Carpenters and Foreign Competition, 383; Girders and Beams, 424; Joinery, 462; Timber House-fronts, 463; Wood, its Chemistry, Decay, and Preservation, 564
Lectures at the Royal Academy:—Prof. Aitchison on balustrades, 381; Prof. Aitchison on doorways, 316; Prof. Aitchison on windows, 380; Prof. Middleton on architecture, 248, 280, 281; Prof. Middleton on sculpture, 314, 345; Mr. A. S. Murray on Greek sculpture, 175, 214; Mr. R. S. Poole on medals, 425
Leeds and Yorkshire Architectural Society, 464, 637, 924
Legislation, sanitary, 585, 669, 762
Leicester Society of Architects, 249
Leighton, Sir F.: at the Artists' Benevolent Fund Dinner, 800; at the Institute Dinner, 730, 759
Leonard, H., on mud architecture, 234
Lewis, Prof. T. H., on Greek architecture, 299
Liberton House, Edinburgh, 585
Light and air cases, 265
Lightfoot, T. B., on refrigerating machinery, 670
Lindsay, Mr., on mild steel, 742
Line of frontage, 409
Littlewood, W. H., on architecture in Italy, 163
Liverpool: Architectural Society, 249; Cathedral designs, 249, 299, 347; Engineering Society, 169, 205, 372, 590, 787, 820; Polytechnic Society, 485
Lloyd, W. Watkiss, on Greek architecture, 300
Locks, push and pull, 784
Locks and keys, 163
London sewage question, the, 246, 583
London and County Banking Co., 238
London Sanitary Protection Assoc., 372
Lovegrove H., on architect and contractor, 461, 465

Machinery, refrigerating, 670
Magnus, Sir P., on architectural education, 739
Manchester: Architectural Association, 163, 235, 312, 390, 520, 600; Society of Architects, 200
Manx sculptured crosses, 198
Marine engines, 590
Marriott, W., on thermometrical observations, 819
Master Builders' Associations, 234, 347, 626
Materials and inventions, new, 703, 741, 785, 885, 921
Matthews, W., on well-water supply, 654
Medal, the Royal Gold, 299, 423, 729
Medals, 425
Medals at the Institute, 161, 215
Mediæval: architecture, 281; sculpture, 314, 345
Memorial *re* Liverpool Cathedral designs, 249, 299, 347
Meteorological Society, 819
Metropolis Local Management Act, cases under, 201, 265, 520
Metropolitan Board of Works: Assistant Architect, 521; Duties of District Surveyors, 270, 304; Election of District Surveyors, 216, 453, 498, 554; Election of Superintending Architect, 234; National Gallery and new street at Charing Cross, 276; Panic in public buildings, 270; Superintending Architect and line of frontage, 409; Surplus lands, 269
Metropolitan Building Act, cases under (see "Building Act, Metropolitan")
Metropolitan sewage question, 246, 583
Middleton, G. A. T., on architectural education, 740
Middleton, Prof.: on architecture, 248, 280; on Mediæval sculpture, 314, 345
Middleton, R. E., on the foundations of the Forth Bridge, 602
Millard, W. J. N., on a studio for architecture, 740
Miller, F. T. W., on art and commercialism, 365
Milman, H. S., at Institute Dinner, 730
Moncrieff, W. Scott: on architecture and engineering, 246; on house sanitation, 264
Money value of sanitation, 732
Mountford, E. W., on contracts, 465
Mountstuart Cist, the, 626
Mowlem & Co., dinner, 200
Mud architecture, 216
Municipal Engineers' Association, 97, 129, 372, 730, 882
Murray, A. S., on Greek sculpture, 175, 214

National Assoc. of Master Builders, 234
National Gallery, the, 215, 276, 466, 733
Nevill, Ralph: on the architecture of Dalmatia, 920; on photographs for Adelaide Exhibition, 496; on new materials and inventions, 741
New materials and inventions, 703, 741, 785, 885, 921
Northern Architectural Assoc., 64, 637
Notes in Gloucestershire, 814, 816, 851

Osborn, F. B., on architectural education, 740
Owen Jones Travelling Studentship, 161

Paddington dustyard and the Jubilee, 105
Panama Canal, 555, 560
Panics in public buildings, 270
Paris, Congress of French architects, 816, 898, 952
Parkes Museum of Hygiene, 464, 583
Paul, R. W. on the architecture of Gloucestershire 814 816
Percival, F., on the architecture of Dalmatia, 920
Phillips, J., on the drainage of the City and Palace of Westminster, 796, 817
Photographs, Adelaide Exhibition, 215, 496
Phythian, J. E., on Ruskin's writings on architecture, 235
Plumbers, registration of, 169, 555, 589, 658, 736, 856, 866, 923
Plumbers' Company, 105, 736, 866
Pneumatic sewerage system, the, 554
Pompeii, 163
Poole, R. S., on medals, 425
Portsmouth drainage, 882
Post-office extensions, 851
Powers of Superintending Architect, 409
Pratt, H. W.: on contracts, 465; on Welsh churches, 383
Prices current of materials (weekly)
Presentation to Mr. Joseph Freeman and Mr. George Burt, 200
Presentation of Royal Gold Medal, 729
Preservation of wood, 564
Presidents' addresses: Auckland Institute of Architects, 448; Society of Engineers, 249
Prinsep, Val. C., on art, 484
Prizes: Art-Union of London, 684; at the Institute, 161, 215, 729; Manchester Society of Architects, 200
Progress of the Panama Canal, 555, 560
Pryce, T. E., on Welsh churches, 383
Public Health Act, the, 97, 129
Pugin Studentship, 161, 729
Pump, a new exhaust, 485

Railway and Canal Traders' Association, 668, 736, 819
Randolph, W., on art and commercialism, 365
Rawlinson, Sir R.: on drainage of Westminster, 798; on engineering prospects, 637; on the London sewage question, 246; on sanitary progress, 249
Registration of: architects, 745; of buildings, proposed, 131, 238, 304, 372, 585, 669, 670, 762; of plumbers, 169, 555, 589, 658, 736, 856, 866, 923
Relations of architecture and the handicrafts, 683, 691
Reminiscences of excursions, 731
Reminiscences of Telford, 98
Report of the Council, R.I.B.A., 651
Rickman, T. M.: on architectural federation, 744; on the complement of architectural instruction, 113, 130
Ridge, L. W.: on the registration of architects, 751; timber house fronts, 463
Right of District Surveyors to enter dwellings, 63, 101
Rimmer, Alfred, on the "Black and White" buildings of Cheshire, 104
Robins, E. C.: on architectural instruction, 130; on architecture and engineering, 246; on architecture and handicrafts, 683; on house sanitation, 265; on the technical education of students of architecture, 696
Robinson, J. L.: on architectural excursions, 731; on architectural federation, 744
Robinson, Prof., on the education of engineers, 249
Rochester visit of the Society of Engineers, 920
Rogers, G. A., on wood carving, 329
Roman: architecture, 280; baths at Bath, 104, 174
Roof of King's Cross station, 882
Royal Academy: Architectural School, 99, 701; lectures (see "Lectures")
Royal Institute of British Architects (see "Institute, Royal")
Royal Meteorological Society, 819
Rural Sanitation, 409
Ruskin's writings on architecture, 235

Saint Mark's, Venice, 163
St. Paul's Ecclesiological Society, 205
St. Thomas's Seminary, Hammersmith, 798
Sale of Sir John Kelk's leaseholds, 414
Sales of land (see "Land")
Sanatorium, the Holloway, 496
Sanitary Assurance Assoc., 131, 238, 304, 453
Sanitary inspector, abusing a, 923
Sanitary Inspectors' Association, 99, 249, 409, 550, 732
Sanitary Legislation Conference, 585, 669, 762
Sanitary Institute of Great Britain, 245
Sanitary Protection Association, 372
Sanitary Registration of Buildings Bill, 131, 238, 304, 453, 524, 669, 670
Sanitary science, architecture, and engineering, 245
Sanitation, house, 198, 264, 331, 369
Sanitation, money value of, 732
Sanitation, rural, 409
Saws, circular and band, 813
School of Engineering, Crystal Palace, 637
Scott, J. O., on the Liverpool Cathedral memorial, 347
Sculpture: Greek, 175, 214; Mediæval, 314, 345
Sculptured crosses in Isle of Man, 198
Sedding, J. D., on architecture and the handicrafts, 684, 691
Seddon, J. P.: on the architecture of Dalmatia, 919; on the Liverpool Cathedral designs memorial, 299; on new materials, 742
Sewage irrigation for small areas, 99
Sewage of London, the, 583
Seward, E., on architectural federation, 744
Sewer ventilation, 205
Sewerage of towns, 245
Sewers, ventilation of, 367
Shaw, G., on registration of plumbers, 866
Shaw, Prof. Hele, on the steam-engine, 372
Sheffield Architectural Society, 787
Shone, I., on the Canvey Island sewage scheme, 584
Shone's pneumatic sewerage system, 554
Shropshire County Surveyorship, 98
Simpson, W., on mud architecture, 216, 233
Sion College, 366
Slate trade, the, 66
Slater, J.: on architectural education, 654, 740; on house sanitation, 264; on new materials and inventions, 703, 742, 785, 885, 921
Smallpeice, Mr., on mild steel, 742
Smeaton, J., on house sanitation, 265
Smith, Prof. T. R.: on architectural education, 739; on architectural federation, 743; on bricks and brickwork, 518, 551; on clerks of works, 366; on the Holloway College, 497; on the registration of architects, 745; on a studio for architecture, 700
Soane Medallion, 161, 730
Society of Antiquaries of Scotland, 626
Society of Arts, 348
Society for the Encouragement of the Fine Arts, 329
Society of Engineers, 249, 554, 670, 882, 920
Society for the Protection of Ancient Buildings, 865, 921
Soirée, Architectural Association, 554
Spiers, R. P., on the Architectural School, Royal Academy, 701
Spinks, W., on Public Health Act, 97, 129
Staircase, new, National Gallery, 466
Stannus, H., on architectural education, 739
Statham, H. H., on the architecture of Dalmatia, 920
Steam-engine, the, 372
Steam roller-making at Rochester, 920
Stokes, Leonard: on art and commercialism, 365; on Welsh churches, 383
Stooke, T. S., on well-water supply, 654
Stray thoughts on education, 635, 654
Street improvements and the National Gallery, 215, 276
Student's notes in Gloucestershire, 814, 816, 851
Studentships at the Institute, 161, 215
Studio for architecture, a, 700, 733, 785, 740
Submarine vessels, 787
Sunday Society, 555, 885
Superintending Architect, powers of, 409
Superintending Architectship, Metropolitan Board of Works, 215, 234
Supplemental Charter, R.I.B.A., 422, 652
Surplus lands, Metropolitan Board of Works, 269
Surveyors' Institution: Annual report, 882; Examinations, 200, 669
Surveyors' and Auctioneers' Clerks' Provident Association, 205, 232
Surveyorship, Shropshire, 98

Tarbotton, M. O., on engineering and architecture, 245
Technical education of architectural students, 693
Telford, reminiscences of, 98
Thames Embankment, land on the, 488
Theory and practice of disinfection, 550
Thermometrical observations, 819
Thomas, W. Cave, on wood carving, 330
Thomson, D.: on architectural federation, 744; on the registration of architects, 748
Thoughts on education, 635, 654
Timber architecture in Cheshire, 104
Timber house fronts, 463
Tite Prize, the, 161, 729
Toynbee Hall, building operatives at, 334
Treatment of the London sewage, 583
Trevail, S.: on architectural federation, 744; on the registration of architects, 752
Trondjhem Cathedral, 519, 586

United Arts' Club, 162
University College, architecture at, 924
Unwin, Prof., on new materials and inventions, 741

Varrentrapp, George, M.D., 464
Venice, St. Mark's, 163
Ventilation of sewers, 205, 367
Vinovia, excavations at, 626
Visits by the Architectural Association (see "Architectural Association")

Waddington, J. F., on sub-marine vessels, 787
Walker, C. C., on Telford, 98
Walker, R. (Cork), on the registration of architects, 752
Walker, R. (London), on the United Arts' Club, 162
Water, the flow of, 169
Water supply, 245; from wells, 653
Water waste-preventing cisterns, 449
Waterhouse, A.: on architecture and handicrafts, 683, 684; at the Institute dinner, 730; on Japanese architecture, 345; report on Edinburgh competition, 330
Watkins, Mr., on architectural federation, 745
Webb, Aston, on the Liverpool Cathedral Memorial, 347
Well-water supply, 653
Welsh churches, 382
Westminster, drainage of, 797
White, W.: on architecture and engineering, 246; on architecture and handicrafts, 684; on art and commercialism, 365; on new materials and inventions, 742
Willoughby, E. F., on George Varrentrapp, M.D., 464
Wimbledon, Church of Sacred Heart, 301
Windows, 380
Wood, chemistry of, 564
Wood carving, 329
Woodward, W., on Holloway College, 497
Worthington, T., on mud architecture, 234
Wright's exhaust pump, 485
Wrought-iron, 334, 348

York Architectural Association, 13

LETTERS.

Abatement of smoke, 164
Accident at Islington workhouse, 235
American Church, Paris, 100
Ancient lights, 622
Architects, registration of, 752
Architectural assistants in America, 731, 785
Architectural education, 739, 750, 887
Architectural societies in the colonies, 165
Architectural studio, a, 733, 785
Arterial drainage, 884
Australia, railways in, 332
Book on timber wanted, 484, 520
Bricks and brickwork, 551
Bristol and Exeter churches, 623
Builders' deposits, 411
Building Act, temporary structures under the, 448
Buildings, historic, 165
Cartridge, safety mining, 235
Cathedral, Liverpool, designs, 100, 266, 301, 331, 485
Cathedral, Trondhjem, 586
Ceilings, plaster, 101
Cement tests, 164
Chimney-shafts, taxation of, 164
Church of St. Michael, Coventry, 817
Churches at Bristol and Exeter, 623
Class of Masonry, Technical Institute, 165
Coils, warming and ventilating, 551
Colonial Architectural Societies, 165
Competition, Maidstone Asylum, 921
Competition for Milan Cathedral façade, 586
Congress of French Architects, 952
Construction, trabeated, 733
Crane's warming and ventilating coil, 551
Crests, 921
Deposits, builders', 411
Designs for Willesden Public Offices, 332
Dimensions of sewers, 623
District Surveyors' duties, 235
Drainage, arterial, 884
Edinburgh Municipal Buildings, 638
Education, architectural, 739, 750, 887
Ejectors, sewage, 817
Emerson, Mr., and the Liverpool Cathedral competition, 100
Epworth Memorial Chapel, 656
Examinations, Sanitary Institute, 100, 164, 201, 235, 301
Exeter and Bristol churches, 623
Exhibition Designs, Glasgow, 132
Explosion of kitchen boilers, 132, 520, 551, 586, 623
Fire-engine Station, Hornsey, 266
Flushing, waste waters for, 302, 332, 411
Gelatine moulds, 132
German cements, 164
Glasgow Exhibition competition, 132
Gloucestershire for architectural students, 851
Great Northern Hospital competition, 100
Guildford Shire Hall restoration, 952
Harris Free Library, Preston, sculpture, 201
Historic City buildings, 165
Hospital, Great Northern, 100
Hôtel Bourgthérolde, Rouen, 785
House agents, 302
Imperial Institute competition, 301, 368, 851
Islington workhouse, accident at, 235
Jubilee holidays, the, 885
Kitchen boiler explosions, 132, 520, 551, 586, 623
Lantern tower, Pershore Abbey, 331
Lifts, 785, 885, 921
Lights, ancient, 622
Lime in sewage, 685
Liverpool Cathedral competition designs, 100, 266, 301, 331, 485
Maidstone Asylum competition, 921
Maintenance of roads, 623
Masonry classes, 165
Masons' wages, 132, 165, 235, 266, 302, 331
Memorial *in re* Liverpool Cathedral designs, 266, 301, 331, 485
Memorial Chapel, Epworth, 656
Milan Cathedral competition, 586
Moulds, gelatine, 132
Municipal Buildings, Edinburgh, 638
Nelson Column, the, 733, 817
Non-acceptance of lowest tender, 411
Open space, Piccadilly-circus, 368, 484
"Ornamental Interiors," 100
Paris, American Church, 100
Payment for quantities, 331, 378
Pershore Abbey lantern tower, 331
Piccadilly Circus, 368, 484
Plaster ceilings, dangerous, 101
Preservation of stone, 952
Quantities, payment for, 331, 378
Quarry-worked stone, 302, 331, 410, 448
Railways in Australia, 332
Registration of architects, 752
Restoration of Guildford Shire Hall, 952
Roads, maintenance of, 623
Safety mining cartridge, 235
St. Michael's Church, Coventry, 817
Sanitary Institute: Congress at Bolton, 952; Examinations, 100, 164, 201, 235, 301
Sculpture, Harris Free Library, Preston, 201
Sewage, treatment of, 132, 147, 685
Sewage ejectors, 817
Sewerage of towns, villages, and mansions 817
Sewers, dimensions of, 623
Sewers, ventilation of, 586, 655
Size of bricks, 551
Smoke prevention, 164
Stairs, Walkern Church, Herts, 411
Steam-rollers, 785
Stone, preservation of, 952
Stone, quarry-worked, 302, 331, 410, 448
Structures, temporary, 448
Students' notes in Gloucestershire, 851
Studentships at South Kensington, 368
Studio, architectural, 733, 785
Taxation of chimney-shafts, 164
Temporary structures, 448
Tenders, non-acceptance of lowest, 411
Tests for cement, 164
Theory of ancient lights, 622
Ties in tables, 656
Timber, book on, wanted, 484, 520
Tower, Pershore Abbey, 331
Trabeated construction, 733
Treatment of sewage, 132, 147, 685
Trondhjem Cathedral, 586
Ventilating coils, 551
Ventilation of sewers, 586, 655
Wages, masons', 132, 165, 235, 266, 302
Walkern Church, Herts, 411
Warming and ventilating coils, 551
"Wash-out" *v.* valve-closets, 331, 369
Waste-waters for flushing purposes, 302 332, 411
Wesley Memorial Chapel, Epworth, 656
Willesden Public Offices competition, 332
Working studentships, South Kensington, 368

LETTERS, WRITERS OF.

Aitchison, Prof., book on timber wanted, 484
Anderson, J. Macvicar, and White, W. H., Liverpool Cathedral Memorial, 301
Ardron, A., Great Northern Hospital competition, 100
Ashton, T. G, Hôtel Bourgthérolde, 785
Ayling, R. S., architectural studio, 733
Baggallay, F.T., studio for architecture, 785
Bale, M. P., quarry-worked stone, 448
Barnes, F. J., preservation of stone, 952
Beaumont G., architectural assistants in America, 731
Binyon, B., Edinburgh Municipal Buildings, 638
Blashill, T., dangerous plaster ceilings, 101
Brown, J. M., safety mining cartridge, 235
Buchan, W. P., kitchen-boiler explosions, 551, 623
Bucknall & Jennings, payment for quantities, 331, 378
Chesterton, E., house agents, 302
Chittenden, S. B., Walkern Church, Herts, 411
Colbran, W. H., Sanitary Institute Examinations, 201
Connon, J. W., Imperial Institute, 851
Crane, K., kitchen-boiler explosions, 551
Donnelly, J. F. D., studentships, South Kensington, 368
Dudgeon, W., book on timber wanted, 520
Emerson, W., Liverpool Cathedral competition, 100
Faija, H., cement tests, 164
German, A. G., "wash-out" *v.* valve closets, 331
Gibson, W. A., lifts, 885
Gough, H. R., quarry-worked stone, 410
Grantham, R. F., arterial drainage, 884
Harris, G. F., preservation of stone, 952
Harvey, L., Masonry Classes, 165
Hems, H., churches at Bristol and Exeter, 623
Hetherington, J., lime in sewage, 685
Higgs, F. & H. F., non-acceptance of lowest tender, 411
Horner, W. S., ventilation of sewers, 655
Houssaille, Herr, education of German architects, 750, 887
Joseph, Delissa, historic city buildings, 165
Kemp, W. T., masons' wages, 266
Lucas, C., Congress of French Architects, 952
Lunn, W., Pershore Abbey, tower, 331
McDonell, G., Liverpool Cathedral designs, 266
Magnus, Sir P., architectural education, 739
Meade, T. de C., fire-engine station, Hornsey, 266
Mullins, E. R., Harris Free Library Sculpture, 201
Musgrave, S., Epworth Memorial Chapel, 656
Pearson, J. T., waste waters for flushing water-closets, 332, 411
Phillips, John, sewerage, 817
Phillips, R., notes in Gloucestershire, 851
Robins, A., masons' wages, 235
Robins, E. C., Sanitary Institute, 952
Scott, J. O., Liverpool Cathedral designs, 266
Scott, R. S., Sanitary Institute Examinations, 164
Seddon, J. P., Liverpool Cathedral designs, 266, 331
Siewers, Carl, Trondhjem Cathedral, 586
Smeaton, J., water-closets, 369
Smith, J. Moyr, "Ornamental Interiors," 100
Smith, Prof. T. R., registration of architects, 752
Smith & Stevens, lifts, 785, 921
Snell & Co., builders' deposits, 411
Stainton, W., kitchen-boiler explosions, 132
Stokes, L. A., improvements at Piccadilly-circus, 484
Tarver, E. J.: Piccadilly-circus, 368; trabeated construction, 733
Thropp, J., maintenance of roads, 623
Walker, D., American Church, Paris, 100
Waterhouse, A.: Liverpool Cathedral Memorial, 485; Milan Cathedral competition, 586
Webb, Aston, Liverpool Cathedral Designs Memorial, 301
Weeks & Co., warming and ventilating coils, 551
White, W.: ancient lights, 622; valve and wash-out closets, 369
Wiston, R., kitchen-boiler explosions, 520, 586
Wood, J. M., the Nelson Column, 733

MISCELLANEA.

Abatement of smoke, 497
Abattoirs, Bath, 586
Aberdeen, Rosemount School, 265
Accidents, 104, 173, 235, 733
Acton drainage, 372, 534, 688, 888
Adelaide Jubilee Exhibition, 626
Adit, a long, 137
Albo-Carbon Light Co., 270
Alloa Town-hall, 551
American: architects and the École des Beaux-Arts, 885; Exhibition building, 67, 304, 524; railways, 621
Ancient monuments, 551
Antipodes, tendering at the, 488
Appointments, 111, 453, 454, 555, 625
Aqueduct, a Roman, 855
Archæological: discoveries, 103, 131; remains in Prussia, 952
Archbishop of York and church seats at Beverley, 168
Architectural: lectures, 113; School at the Royal Academy, 584
Architecture: at the Manchester exhibition, 204; Pompeian, 414
Art: exhibitions on Sunday, 248; Gallery, Dundee, 631
Art Journal, the, 662
Art at the Merchant Venturers' School, Bristol, 555
Art Museum, Christiana, 270
Artisans' dwellings, Birmingham, 132
Assoc. of Municipal Engineers, 204, 813, 886
Asylum, lunatic, for Middlesex, 819
Auction sales, results in 1886, 104
Baltic and White Sea Canal, 956
Bank, Wimbledon, 658 638
Baths at Buxton, 454, 488
Baths and lavatories, 815
Battersea, cremation at, 856
Berlin: building in, 956; Houses of Parliament, 625; Museum of Hygiene, 204
Bethnal Green Free Library, 887
Billian wood, 484
Billiard-room, Poplar, 59
Birkenhead Sessions Courts, 851
Birmingham: artisans' dwellings, 132; Conservative Club, 63; Law Courts, the new, 487, 934; Society of Artists, 495; ship canal, 590; strike in the building trade, 555, 589, 626, 658, 688
Bombay, the Victoria Terminus, 384
Bornean woods, 484
Boyle, Robert, & Son (Limited), 67
Brass, memorial, to Dean Howson, 414
Brewery, Cockermouth, 63
Bricks: drying, 524; enamelled, 923
Brickmakers, strike of, 670
Bridge: Forth, 555; Hughli, 137; Stockton, 551; Sound, 137
Brisbane, cathedral for, 762
Bristol: art at, 555; water-supply, 133, 850
British Medical Association, 304
Briton Insurance Office buildings, 304
Builder's report, Conference of Architects, 816
Building: in Berlin, 956; at Clapham, 169; at Hornsey, 625
Building Trade failures, 282
Buildings for technical schools, 488, 917
Burial reform, 454
Bust of Lord Iddesleigh, 238
Buxton baths, 454, 488
Canals: Baltic and White Sea, 956; Birmingham ship, 590; des deux Mers (Bay of Biscay to Mediterranean), proposed, 270; Nicaraguan, 168
Cannes, English church at, 165, 304
Capri, the blue grotto at, 956
Carbonic acid in the ground, 169
Cargoes, wood, 626
Carlisle water supply, 133
Carpenters' Hall Lectures, 316, 371
Cart-horse parade, the, 800
Castles: Christiansborg, 600; Falside, 763; Shrewsbury, 590
Cathedrals: Brisbane, 762; Exeter, 205; Lincoln, discoveries at, 131; Liverpool, 208; Upsala, 204
Cement: new method of preparing, 957; substitute for, 623
Cement trade in Germany, 923
Cemeteries, 133, 316, 414, 454, 587, 864
Channel Tunnel scheme, the, 67
"Charing Cross-road, W.C.," 334
Chichester, East Sussex Infirmary, 414
Chiswick, paving at, 820
Christiania: Government Offices at, 536; Museum, 270
Christiansborg Castle, 600
Church architecture, early, 528
Church, Cathcart, Cape Colony, 736
Church, English, at Cannes, 165, 304
Church, Hythe, 131
Church Building News:—Andover, 656; Aylesbury, 64; Bamber Bridge, 521; Beckenham, 499; Begelly, 587; Belfast, 587; Bestwood, 787; Boroughbridge, 587; Burley, 165; Cannes, 165, 304; Cardiff, 137, 587; Cathcart, Cape Colony, 736; Chiswick, 798, 851; Clerkenwell, 587, 670, 733; Coventry, 886; Croydon, 521; Dingley, 165; Edinburgh, 76; Egg Buckland, 886; Failand, 887; Fakenham, 602; Gillingham, 924; Gnaton, 521; Grantham, 659; Guyhirn, 887; Hoghton, 521; Holme-next-the-Sea, 165; Highgate, 931; Kensington, 116, 316; Langport, 409, 935; Leek, 887; Lincoln, 552; London, 165, 924; Maldon, 552; Manchester, 688; Nonington, 950; Northampton, 165; Peebles, 587; Peterborough, 78; Petrockstow, 165; Plymouth, 587; Redcar, 656; Rhyl, 316; Ruddington, 168; Sale, 656; Sandwich, 921; Sawrey-Infra, 602; Sparkwell, 656; Streatham, 587; Sunningdale, 800; Tharston, 64; Tunbridge Wells, 164; Upton Pyne, 759; Warlingham, 64; Warminster, 250; Wishaw, 64
Churches burned down, 104
Church-house, Walsall, 64
Churchwardens of Beverley *v.* Archbishop of York, 168
Clapham, building at, 169
Classes for masonry, 78, 165, 488

MISCELLANEA (continued):—

Clerks of Works' Association, 334
Club, Conservative, Birmingham, 63
Clockhouse estate, Clapham, 169
Clocks, 956
Club: Constitutional, Poplar, 59; National Liberal, 736
Coils, Crane's ventilating warming, 524
Coldbath Fields prison, 888
College of Preceptors, 414, 564, 597
College of Surgeons' Examination Hall, 454
Colonial Exhibition, last of, 104, 162
Colonies, lifts for the, 525
Colour, its laws of contrast, 488
Competition of fire-engines, 625
Competitions:—Asylum, Maidstone, 921; Asylum, Lunatic, for Middlesex, 819; Cathedral, Liverpool, 5, 74, 100, 209, 249, 266, 299, 301, 331, 347, 419, 485; Cathedral, Milan, 880; Cemetery, Fareham, 175, 316; Cemetery, Oldham, 861: Chapel, Helperby, 586; Chapel, Newcastle-on-Tyne, 850; Church (St. Paul's), Kensington, 118; Clock Tower, Margate, 669, 714; Cottage hospital, a, 378; Cottage hospitals, Romford, 711; Exhibition, Glasgow, 132, 536; Façade of Milan Cathedral, 531, 586; Fountain, Reading, 347; Free Library, Edinburgh, 453, 826, 891; Government Offices, Christiana, 536; Grammar School, Kendal, 347; Guildford Castle and Bowling Green Estates, 347; Guildhall, Lavenham, 586; Hospital, Gateshead, 270; Hospital, Great Northern, 100; Hospital, Liverpool, 200; Hospital, Wilton, 930; Imperial Institute, 244, 301, 310, 334, 368, 378, 934; McArthur Hall, Belfast, 850; Markets, Carlisle, 63; Market, Kendal, 736; Municipal Buildings, Edinburgh, 244, 299, 311, 330, 341, 380, 493, 638; Museum, Geneva, 250; Public Offices, Willesden, 301, 332, 499; Schools, Bristol, 499; Schools, Camborne, 488: Schools, Forest Gate, 499; Schools, Milverton, 147; Schools, Ramsey, 711; sewerage, Cleethorpes, 147; Town-hall, Bethnal-green, 63; Town-hall, Fulham, 460; Town-hall, Vincennes, 668
Concrete work for harbours, 204
Congress of hygiene, international, 204, 887
Connecticut, Trinity College, 736
Convalescent home, Cookridge, Leeds, 851
Cost of paving and lighting in the City, 166
Council of the R.I.B.A., 733
County grants and wood paving, 820
Crane's ventilating warming coils, 524
Cremation, 856; in Denmark, 65
Crosses: Eleanor, Northampton, 131; Ruthwell, Annandale, 131
Cutting-off the water, 688

Decay of South Staffordshire iron and coal trades, 589
Dee, pollution of the, 590
Delphi, excavations at, 525
Desk-book, a useful, 525
Dinners to workmen, 66
Disaster at the Opéra Comique, Paris, 815
Discoveries, archæological, 103, 131
Disinfection of London sewage, 762, 820
Dispensary, Oxford, 688
Dissenting Church Building News:—Carlisle, 853; Comber, 736; East Moulsey, 66; Epworth, 601, 656; Fowey, 853; Glasgow, 853; Newcastle-on-Tyne, 850; Penarth, 553; Smethwick, 887; Sturton-le-Steeple, 595; Truro, 685
District Surveyorship, Charlton, 67
Docks: Preston, 414; Southampton, 888
Dog's Home, crematorium at, 856
Door-check, pneumatic, 369
Dorsetshire, proposed railway, 137
Drainage, Thames Valley, 888
Dublin: City Engineership, 454; Taylor Art Scholarship, 587
Dundee: Art Gallery, 631; Technical College, 133
Dust-excluder, Porter's, 625
Dwellings, tenement, 597

East India teak, 168
Eastcheap, new buildings, 104, 133
École des Beaux Arts, Paris, 885
Edinburgh: Free Library, 453; housing the poor, 565; technical schools, 485
Edmonton cemetery chapel, 414, 454
Eleanor Cross, Northampton, 131
Electric lighting, 856
Electrical smithy, a, 563
Electricity, cheap application of, 234
Elliott's water-bar for casements, 887
Enamelled bricks, 923
Engineering trades, the, 103
Engineership, Dublin, 454
English church at Cannes, 165, 304
Essex sepulchral monuments, 204
Examination Hall, College of Surgeons, 454
Excavations: at Delphi, 525; at Lincoln Cathedral, 131
Exchange Station, Liverpool, 132, 168
Exeter Cathedral, 205
Exhibitions: Adelaide, 626; American, Earl's Court, 67, 304, 524; hygienic, Warsaw, 234; Manchester, 204, 688; Melbourne Centennial, 787; Railway, at Paris, 524
Experiments with hellhoffite, 204
Eyemouth harbour extension, 590

Failures in the building trade, 282
Faithfulness to duty, 66
Falside Castle, 763
Fareham cemetery competition, 316
Feat in railway building, a, 621
Fire-engines, Shand & Mason's, 625
Fires, 104, 169; in theatres, 304, 815
Fleming Memorial Hospital, Newcastle-on-Tyne, 851
Fountain, proposed, Reading, 347
Forth Bridge, the, 555

Free Library, Edinburgh, 453
French railway jubilee, 524
Frimley sewerage scheme, 887
Future of gas-lighting, the, 624

Gas in Glasgow Cathedral, 137
Gaslighting, future of, 624
Gateshead Children's Hospital, 270
Geological field-class, a, 535
German: cement trade, 923; Houses of Parliament, 625
Glasgow Cathedral lighted with gas, 137
Globe warehouses, Hull, 586
Goldsmiths' Company and open spaces, 466
Government Offices, Christiana, 536
Grammar School, Kendal, 347
Grotto at Capri, the, 956
Ground, carbonic acid in the, 169
Guildford Castle Estate, 347

Hadfield, the late M. E., 384
Halls: Innholders', 105; Wesleyan Centenary, 735
Hampstead Heath, proposed road to, 453
Handicraft instruction, 238
Harbour, Eyemouth, 590
Harbours, concrete work for, 204
Haydn statue, the, 887
Healthiness, distressing, 857
Heating-appliances, testing, 956
Hellhoffite, 204
Heriot Technical School, Edinburgh, 485
Historical treasures, Upsala Cathedral, 204
Homes, healthy, 236
Hornsey, building at, 625
Hospitals: Gateshead, 270; Liverpool, 200; Montreal, 736; Newcastle-on-Tyne, 851; Tolworth, 132; Wallasey, 788
Hôtel Victoria, the, 554
House, an iron, 524
House of straw, a, 202
Houses of Parliament, Berlin, 625
Housing the Edinburgh poor, 565
Hughli Bridge, Bengal, 137
Hydraulic lifts for the Colonies, 525
Hygiene: congress of, 204, 887; Museum of, Berlin, 204; of schools, 524
Hygienic exhibition at Warsaw, 234
Hythe Church, Kent, 131

Iddesleigh, Lord, memorial to, 759
Imperial Institute, the, 934
Infirmaries: East Sussex, Chichester, 414; Paisley, 637
Innholders' Hall, 105
Institute, National, for Wales, 137
Institution of Civil Engineers, 98
Institution of Mechanical Engineers, 466
Instruction in handicrafts, 238
Instruments, meteorological, 487
International Statistical Institute, 204
Iron, Hardware, and Metal Trades' Pension Society, 270
Iron house, an, 524
Iron, Mitis, 524
Iron process for sewage, 856

Jubilee of French railways, 524
Jubilee projects, 99, 105, 132, 137, 270, 347, 453

Kensington Exhibitions, last of, 162, 499
Keys: Manchester Exhibition, 688; People's Palace, 658
Kingston Municipal Buildings, 132, 450

Lambeth Palace Library, 638
Lancaster pneumatic door-check, 369
Law Courts, Birmingham, 487, 934
Leary & Co.'s Hard-wood Circular, 168
Lectures: architectural, 113; at Carpenters' Hall, 316, 371; at the Royal Academy, 168, 204, 244; for sanitary inspectors, 488; on sculpture, 421
Leeds, convalescent home, 851
Libraries: Bethnal Green, 887; Lambeth Palace, 688
Liège, new museum, 887
Lifts, 280, 334, 345, 454, 483, 525
Lighting, electric, 856
Lightning, photographs of, 956
Lincoln: Cathedral, discoveries at, 131; sewage sludge, 888
Liverpool: Cathedral, 203; new City Hospital, 200; new Exchange Station, 132, 168; wood market, the, 104
Locomotive works, Nine Elms, 856
London: parks, 372; sewage and the Thames, 762; wood trade, 136
London and South-Western Railway extensions, 856
Lunatic asylum for Middlesex, 819
Lymington sewerage works, 887

Mail-cart driver and the snowstorm, 66
Major, H. J. & C. (Limited), 487
Manchester: decorations at, 666; Exhibition, 204, 688
Manitoba railway, the, 621
Marine meteorological instruments, 487
Market, Kendal, 736
Market-house, Rothwell, 554
Marylebone washhouses, 104
Masonry classes, 78, 165, 488
Masters and men: wages, strikes, and labour notes: Central Association of Master Builders, 347; labour and wages in Morocco, 418; Labour Statistical Bureau, the, 339; labourers' wages, 485; masons' wages, 132, 165, 235, 266, 302, 331; National Association of Master Builders, 234; Staffordshire coal and iron trades, 589; strike of brickmakers in the Cowley district, 670; strike in the building trades at Birmingham, 555, 589, 626, 658, 688; trade guilds in Europe, 107; wages at home and abroad, 73; wages in 1879 and 1885, 108
Matheson & Grant's Engineering Trades' Report, 103
Melbourne: Centennial Exhibition, 787; fire-engines at, 625

Memorials: to the late M. E. Hadfield, 384; to Lord Iddesleigh, 759; Transvaal Defence, 367
Merchant Venturers' School, Bristol, 555
Messina tunnel, the, 453, 623
Meteorological instruments, 487
Middlesex, new lunatic asylum, 819
Mills: Silloth, 63, 103; Wellingborough, 454
Mines, Staffordshire, 589
Mitis iron, 524
Modelling, architectural, at the Royal Academy, 584
Montreal, proposed hospital, 736
Monuments: ancient, 551; Dean Howson, 414; Emperor of Germany, 104; Haydn, 887; Marquis of Montrose, 857; sepulchral, in Essex, 204; in Winchester Cathedral, 137
Mortar, sugar in, 488
Mosaics at Venice, 934
Mozart, statue to, 488
Municipal Buildings, Kingston, 132, 450
Municipal Engineers' Association, 204, 813, 886
Museums: Christiania, 270; Hygienic, Berlin, 204; Liège, 887

National Liberal Club, 736
New South Wales, tendering at, 488
New York underground railway, 883
Newcastle-on-Tyne, new hospital, 851
Newgate and the Old Bailey, 864
Newton, Professor, 204
Nicaraguan canal, 168
Nine Elms locomotive works, 857
Nineteenth Century Art Society, 141, 239, 625
Nitro-glycerine and hellhoffite, 204
Northampton: Eleanor Cross, 131; theatre burned down, 304
Northumberland-avenue: the Hôtel Victoria, 554
Notes, archæological, 103, 131

Obituary:—Amerling, F., 200: Avisse, Paul, 5; Bartet, M., 211; Bassett, A., 586; Bell, George, 163; Bolton, Sir F., 163; Chapple, John, 270; Cousins, S., 732; Daremberg, M., 930: Daumas, M., 211; Davis, John, 800; Davis, M., 99; Deroche, Victor, 5; Dirks, M., 99; Eads, Captain, 460; Foulon, the Marquess de, 210; Gaillard, F., 211; Goldie, Geo., 367; Groves, T., 99; Guillaumet, G., 495; Hall, J. G., 800; Hill, H., 829; Hillemacher, M., 495; Holden, C., 883; Horsford, J., 99; Hussey, R. C., 215; Jacomb, W., 829; Jones, Sir Horace, 796, 799, 849, 884; Lièvre, Edward, 5; Lonfaché, J. M. le, 211; Longmire, W., 759, 762; Maréchal, M., 211; Mélin, Joseph, 5; Moffat, W. B., 829; Newman, Alfred, 173; Orry, Abel, 5; Phillips, H. J., 304; Rayet, O., 347; Reavell, G., 690; Ruprich-Robert, M., 793, 796, 828; Sang, J., 600; Sapsford, T. H., 299; Stevenson, Thos., 732; Tarbotton, M. O., 410; Tucker, Stephen, F.S.A., 163; Vernier, E., 828; Watson, J. R., 670; Whitworth, Sir J., 178; Wood, J. Warrington, 10; Wyld, J., 631
Offices: Eastcheap, 104, 133; Winchester, House, 956
Old Bailey and Newgate, 864
Open spaces and City companies, 466
Opéra Comique, Paris, burnt down, 815
Otley water supply, 850

Paris water-supply, 454
Parks, London, 372
Partnerships, 101, 105
Patents, recent:—Alarums for doors, 269; apparatus for teaching drawing, 101; bath-fittings, 487; bench plugs, 333; bending timber, 333; blocks for building, 921; brackets, &c., 238; bricks, 66, 101, 371, 523, 817, 921; burglar alarm, 333; casements, 66, 785, 885; cements, 136, 237, 269, 623, 855; chandeliers, 333; chimney-tops, 201, 371, 413, 553; coal-plate, 487; concrete-mixing, 167; corner clamps, 589; cowls, 136, 167, 413, 817; damp-course, 371; damp-proofing walls, 706; decoration, 167, 168, 589; door-checks, 66, 785; door-knobs and handles, 101, 237, 413, 656; door locks and latches, 201, 238, 333, 413; door-spring, 136; doors, 733; dovetailing, 333; drains, 487, 523, 623; drawing-boards, 333; dust-bins, 201; electric bells, 136; economising fuel, 101; fanlights, 66; fences, stalls, &c., 269; fire-alarm, 706; fireplaces, 817; floors, 371, 452, 656, 885; flushing cisterns, 656, 733; gasfittings, 101, 656; glazing, 855, 955; gully-trap, 955; gutters, 333; hinges, 136, 201, 656; hoists and lifts, 333; hopper-wagons, 487; kilns for pottery and tiles, 136; kitchen ranges, 706; lavatories, 623; levels, 269, 333; lining, &c., in painting, 101; lock furniture, 66; manufacture of white lead, 553, metal doors and frames, 733; mitreing machines, 785; nail-driving appliance, 589; paints, 66, 656; paving-blocks, 101; pigments, 167, 921; portable houses, 452; roofing, 955; sash-fasteners, 706, 885; saw frames, 931; sawing machines, 623; saws, setting, 237; sewage treatment, 269; shop-fronts, 885; skylights, 66; slag paving, 785; soil-pipes, 589; square turning, 785; stained glass, 269; steps, ladders, &c., 371, 623; stoves, 101, 237, 706; testing drains, 523; tiles, 101, 452, 523, 589, 733; tool-handles, &c., 238; ventilators, 66, 136, 333, 413, 452, 487, 523, 553, 589, 706, 817, 955, 921; vices, 269; wall-paper, 885; warming, 487; water-closets, 66, 167, 201, 371, 452, 523, 623, 706, 733, 855, 885, 955; water-taps, 269, 817; wedge for doors, 785; wedges or keys, 333; window and door fasteners, 733, 785, 955; window frames and sashes, 201, 523, 553, 589, 656, 785, 817, 855, 955; windows, 413, 656, 733, 785, 955; wrench, 487
Paving and lighting in the City, 166
Paving: wood, on main roads, 820; slag, 67
Petroleum, Russian, 168
Perry & Co.'s unemployed relief fund, 216
Phœnix Fire Office, 625
Photographs of lightning, 956
Pier at Ventnor, 688, 736
Pneumatic door check, 369
Polytechnic Science Classes, 371, 454
Pollution of the Dee, 590
Pompeian architecture, 414
Poor, dwellings of the, in Edinburgh, 565
Porter's dust-excluder, 625
Portland cement, setting of, 957
Portobello railway station, 626
Post-office, Romford, 588
Preceptors, College of, 414, 564, 597
Preparing cement, 957
Preston docks, 414
Printing Machine Managers' Fund, 787
Prison, Coldbath Fields, 888
Prizes, Turners' Company, 625
Professors of Architecture at the Royal Academy, 466
Projects, Jubilee, 99, 105, 132, 137, 270, 347, 453
Provincial News, 63, 64, 103, 132, 133, 454, 521, 551, 586, 587, 588, 658, 688, 832, 851, 852
Prudential Assurance Co., 414
Prussia, archæological remains in, 952
Pulpit, Burlescombe, 956
Purity of sand, 900

Rafferty, Thornton, & Co. (Limited), 169
Railway-building feat, a, 621
Railway in Dorsetshire, proposed, 137
Railway jubilee in France, 524
Railway, London and South-Western, 856
Railway stations:—G.N.R., 554; Portobello, 626; Southend, 658
Railway, underground, New York, 883
Railways in Turkey, 488
Ramsgate, proposed new road, 521
Reavell, the late Mr. George, 600
Regent's Park to Hampstead Heath, 453
Relief of the unemployed, 216
Reredoses, 66, 759
Reservoir, Wallasey, 169
Restoration of: Roman aqueduct, 855; Shrewsbury Castle, 590
Richmond drainage, 888
River works, Preston, 414
Roman aqueduct, a, 855
Roman Catholic Church Building News: Brighton, 763; Brixton, 409; Brompton, 340; Clapham, 409; Haverstock Hill, 658; Liverpool, 786; London, 849, 867; Mill Hill, 917; Wimbledon, 301
Rosemount Schools, Aberdeen, 265
Rothwell Market House, 554
Royal Academy: Architectural School, 584; Lectures, 168, 204, 244; Professors of Architecture, 466
Rural appointment, a, 625
Russian petroleum industry, 168
Ruthwell cross, Annandale, 131

St. Pancras Workhouse, 492
Sahara Lake scheme, the, 168
Sale of: Kensington Exhibition buildings, 162, 499; Stewart Collection, 136
Sand, purity of, 900
Sanitary inspectors, lectures for, 488
Sanitary Institute of Great Britain, 304
Sarcophagus, granite, for Prince Imperial, 66
Scandinavian Sailors' Home, London, 956
School Building News:—Aberdeen, 265: Basingstoke, 135, 282; Bristol, 499; Camborne, 488; Forest Gate, 499; Great Horton, 135; Kendal, 347; Milverton, 147; Newcastle-on-Tyne, 553; Northampton, 763; Sheffield, 135; Southampton, 736; Truro, 688, 949; Worcester, 788
School Hygiene, 524
Science classes, Polytechnic, 371, 454
Scotch news, 133, 265, 551, 626, 631, 637
Sepulchral monuments of Essex, 204
Sessions Court, Birkenhead, 851
Sewage disinfection, London, 762, 820
Sewage treatment, 856
Sewerage and Drainage:—Acton, 372, 534, 688, 888; Cleethorpe, 147; Codnor, 204; Cowes, 4; Dorking, 133; Friern Barnet, 301; Frimley, 887; Guildford, 133; Hendon, 636, 685; Lincoln, 888; Lymington, 887; Maryport, 64; New Malden, 414; Newhaven, 133; Portsmouth, 882; Richmond, 888; Sutton (Surrey), 133; Swanwick, 133; Thames Valley, 888; Warsaw, 174; Windsor, 856; Wrexham, 590
Shand & Mason's fire-engines, 625
Sheffield water-supply, 133
Ship Canal, Birmingham, 590
Shrewsbury Castle, 590
Simplon Tunnel, the, 900
Site of Coldbath Fields Prison, 888
Slag paving, 67
Smithy, an electrical, 563
Smoke nuisance in London, 497
Society of Arts, 101
Sound: bridging the, 137; tunnelling, 956
Southampton docks, 888
Southend, new railway station, 658
Staffordshire coal and iron trades, 589
Stained glass:—Addington, 735; Beccles, 658; Coniston, 135; Egg Buckland, 850; Elstow, 523; Great Barr, 706; Hanney, 136; Kingston (near Taunton), 706; Leigh (Essex), 706; Lucan, Co. Dublin, 602; Malvern, 658; Manchester, 706; Manningham, 523; Mepal, 853; Newmarket, 136; Northampton, 136; Oldham, 706; Reddish, 104; St. Day (Cornwall), 136; Shepherd's Bush, 787; Stamford Hill, 787; Wiveliscombe, 706
Statistical Institute, International, 204

MISCELLANEA (continued):—

Statues: Colin Minton Campbell, 165; Haydn, 887; Mozart, 488
Steel rails in construction, 67
Stewart collection, the, 136
Stockton new bridge, 551
Stoppage of water supply, 688
Straw as a building material, 202
Street, new, at Charing Cross, 334
Strikes: brickmakers, 670; in the building trade at Birmingham, 555, 589, 626, 658, 688; in the United States, 956
Substitute for cement, a, 623
Suburban stations, G.N.R., 554
Sugar in mortar, 488
"Sun and Planet" engine, 736
Sunday art exhibitions, 248
Sunderland cemetery extension, 864
Surveyorships:—Okehampton, 625; Shropshire, 98; West Ham, 111; York, 555
Swanage, 236
Sydney, proposed new square, 763

Taylor Art Scholarship, Dublin, 587
Teak, East India, 168
Technical: College, Dundee, 133; school buildings, 483; schools, Coventry, 586; schools, Edinburgh, 485
Temple Bar, 557, 885
Tendering in New South Wales, 488
Tenders (weekly)
Tenement dwellings, 597
Terry's Theatre, 555
Testing ventilating appliances, 956
Thames, sewage in the, 762, 820
Thames Valley drainage, 888
Theatre, new, in the Strand, 555
Theatres burnt down, 304, 815
Timber-drying, 202, 630
Timber-converting company, a, 484
Tin-plate trade, the 169
Town-halls: Alloa, 551; Leek, 587
Trade: mems., 105; outing, 956
Trades: engineering, 103; wood, 104, 136, 168
Tramways: London, 137; Southport, 521
Transvaal Defence Memorial, 367
Treasures of Upsala Cathedral, 204
Treatment of sewage, 856
Tresham, Sir Thomas, a work by, 554
Trinity College, Connecticut, 736
Tunnel: a long, 137; Messina, 453, 623; Simplon, 900; Sound, 956
Turkey, railways in, 488
Turners' Company's prizes, 625

Underground railway, New York, 883
Unemployed relief fund, 216
United States, strikes in the, 956
Upsala Cathedral, 204

Venice, mosaics at, 934
Ventilating appliances, testing, 956
Ventilating coils, 524
Ventnor, pier at, 688, 736
Victoria Terminus, Bombay, 384
Viking ship, discovery of, 103

Wallasey hospital for infectious diseases, 788
Warehouses: Hull, 586; Wapping, 334
Warming coils, 524
Warsaw, hygiene at, 234
Wash-houses in St. Marylebone, 104
Water-bar for French casements, 837
Water companies, powers of, 688
Water Supply: Bristol, 133, 850; Carlisle, 133; Colne Valley, 653; Hinckley, 654; Lechlade, 688; London, 161, 653; Northallerton, 148; Otley, 859; Paris, 454; Penzance, 133; Sevenoaks, 133; Sheffield, 133, 493; Southampton, 654; Tunis, 110; Wallasey, 169; Warsaw, 174; Watford, 653
Water-supply, stoppage of, 688
Watt's "Sun and Planet Engine," 736
Well-water for London, 162
Welsh Institute, proposed, 137
Wenham Company, the, 488
Wesleyan Centenary Hall, 735
West Ham Borough Engineership, 111
Wimbledon, new bank, 658, 688
Winchester Cathedral, old monument, 137
Winchester House, Old Broad-street, 956
Wood cargoes, short delivery of, 626
Wood market, the, 104, 136, 168
Wood paving on main roads, 820
Woods, Bornean, 484
Workhouse, St. Pancras, 492

York City Surveyorship, 555

ARCHITECTS, ETC., OF BUILDINGS ILLUSTRATED.

Architects of buildings, and authors of designs and works, illustrated:—
Allen, E. J. Milner, & Simpson, J. W., third premiated design for Edinburgh Municipal Buildings, 398-399, 407, 472-473, 476-477, 483
Armstead, H. H., R.A.: monument to Bishop Ollivant, 939; sculpture, "Ladas," 680
Bartleet, W. G., Church of St. George, Beckenham, 506-507
Beaumont, S. G., houses in Chicago, 148, 198
Belcher, John, mansion, Stowell Park, 902-903
Bell, Charles: Board Schools, Basingstoke, 296-297; house at Grimsby, 846
Berthet, M., statue of Rousseau, Paris, 609
Binyon, B.: design for Edinburgh Municipal Buildings, 566, 568-569, 572; Municipal Buildings, Sunderland, accepted design, 764, 770-771
Birch, C. B., sculpture, "Mr. C. Wyndham as *David Garrick*," 681
Birkenhultz, P., ornament, 144
Blashill, T., Ingram House, Fenchurch-street, 195, 197
Blomfield, A. W.: Bank of England, Fleet-street Branch, 766-767; Warminster Church, 260
Bourdon, Pierre, ornament for goldsmiths' work, 75
Bourguet, Jean, ornament for goldsmiths' work, 6
Brewer, H. W., "Measure and Value," 20-21
Briggs, R.A.: design for St. Paul's Church, Kensington, 327; dining-room and furniture, 726
Brooks, James: Church of the Holy Innocents, Hammersmith, 36-37; proposed Church of St. Paul, Kensington, 116, 122-123, 126-127
Brown, P., offices, Woolwich, 677
Brydon, J. M., design for Edinburgh Municipal Buildings, 906,-907, 910 911, 917-918
Cabot & Chandler, shops and offices, 803
Carravaggio, P., ornament by, 280
Carter, J. C., & Garratt, T., design for suburban church, 288
Chorley & Connon, offices of *Yorkshire Post*, Leeds, 289
Church, W. D., Congregational Church, West Croydon, 194
Cobb & Frost, house, Chicago, 802
Crank, M., statue of Admiral Coligny, Paris, 191
Crossland, W. H., chapel, Royal Holloway College, 871
De Brys, the two, ornament by, 212-213
Döllinger, Prof., Garrison Church, Stuttgart, 573
Draper, Herbert J., decorative frieze, "Spring Time," 182-183
Dresser, Dr., ornament by, 502
Emerson, W. R., Art Club, Boston, U.S., 150
Folkema, R. J., ornament, 144
Ford, E. O., sculpture, "Peace," 680
Forsyth, J., monument to Bishop Fraser, 939
Fowler, James, Bede-houses, Louth, 359
Frampton, Geo. J., sculpture, "The Brazen Serpent," 231
Freeman, R. K., mansion, Graythwaite Hall, Windermere, 874-875
Galle, Philip, ornament, 145
Garratt, T., schools, Northampton, 774
Garratt, T., & Carter, J. C., design for suburban church, 288
Gautier & Villemiaot, MM., sculpture, Bureau des Marchands-Drapiers, Paris, 539
Gentsch, A., designs of ornament for goldsmiths' work, 112-113
Gilbert, Alfred, "The Enchanted Chair," sculpture, 24-25
Godwin, E. W., & Seddon, J. P., design for a People's Palace, 257
Goldie & Child, design for Oratory, Brompton, 536, 540-543, 545-547
Goldie, Child, & Goldie, Church of St. James, Spanish-place, 842-843, 878-879
Gravigny, Ulysse, Mairie, Arcueil-Cachan, 870
Guélorget, Léon, Hôtel de Ville, Pantin, Paris, 12-13
Gwyther, W. W., Commercial Bank of Sydney, London, 565-581
Hall, E. T., Mansions, Westminster, 936, 942-943
Hall, H., & Young, K. D., Hastings and St. Leonard's Hospital, 180, 186-187
Hay & Henderson, design for Edinburgh Municipal Buildings, 604-605
Henman & Timmins, Offices, West Bromwich Union, 589
Herbst, J. B., designs for Ornament for Goldsmiths' Work, 112-113
Hibbert, James, Sculpture, Harris Free Library, Preston, 118-119, 201
Hicks, James, Wesley Memorial Chapel, Epworth, 608
Hubbard, G., Bryanston Working Men's Club, 915
I'Anson & Son, almshouses, Charlton, 727
Jackson, T. G., Brasenose College, Oxford, 832, 834-835
Jamitzer, Christopher, grotesques, 598-599
Jamitzer, W., candlestick, 151
Janssens, H., ornament, 145
Jarvis, H., & Son, St. Saviour's Union Infirmary, Champion Hill, 322-323, 648
Jones, E. Burne, A.R.A., designs for stained glass, 354-355
Joseph, Delissa, warehouses, St. Paul's Churchyard, 362
Joseph & Smithem, premises, Brook-street, Grosvenor-square, 649
Kersey, A. H., banking premises, Aden, 78, 80-83
Kilian, Lucas, grotesques, 598
Kimball & Wisedell, vestibule, Casino Theatre, New York, 538
Knight, F. G., houses and shops, Chelsea, 350, 351
Koch, A., design for Museum at Geneva, 250, 252-253
Lainson & Son, Ladies' Home, West Hove, 90
Le Blond, Michel, designs of ornament for goldsmiths' work, 112-113
Leeming & Leeming, first premiated design, Edinburgh Municipal Buildings, 386-387, 390-391, 402-403, 432-433, 437, 444
Lethbridge, George, house at Tunbridge Wells, 535
Little, A., cottage at Manchester, Massachusetts, 150
Lyon, Walter F., suggested restoration of Edinburgh Castle, 640
Marten, H. & E., summer-house and smoking-room, Bolton-Royd, 847
Meade, T. de C., fire-engine station and mortuary, Hornsey, 226-227
Mew, F., additions to Vestry-hall, Hampstead, 763, 778
Morris & Hunter, Design for Edinburgh Municipal Buildings, 500, 510-511, 514-515
Mullins, E. R., sculpture, Harris Free Library, Preston, 118-119, 201
Newman & Newman, Church of St. Mary Magdalene, Chiswick, 426
Nicholl, S. J., R.C. Church of St. John the Baptist, Brighton, 779
Peabody & Stearns, clubhouse, St. Louis, 803
Pearson, J. L., development of the ground-plan of St. Hugh's apse, Lincoln Cathedral, 757
Pinturrichio, decoration of the Appartamenti Borgia, Vatican, 28-29, 32-33, 60-61
Pittoni, S., ornament, 151
Potts, Sulman, & Hennings, house at Wimbledon, 775
Reeve, J. A., conjectural restoration of Fountains Abbey, 86-87
Richardson, H. H., doorway of City Hall, Albany, U.S., 538
Roberts, C. G., rain-water separators, 884
Robson, E. R., Queen's Hall, People's Palace, Mile End, 718-719
Russell, S. B, design for Assize Courts for a Country Town, 155
Seale, G. W., Reredos, Langport Church, 938
Sedding, J. D.: Church of the Redeemer, Clerkenwell, 672-673; Reredos, Langport Church, 938
Seddon, J. P., and Godwin, E. W., design for a People's Palace, 257
Scott, J. O., church, Sunningdale, 806-807
Shone, Isaac, drainage works at the Houses of Parliament, 178-179, 733
Simon, Frank W., design for a Classical church, 218-219, 222-223
Simpson, J. W., and E. J. Milner Allen, third premiated design for Edinburgh Municipal Buildings, 398-399, 407, 472-473, 476-477, 483
Snell, H. S., and Smith, W. & J., proposed new pavilions, Aberdeen Infirmary, 868, 881
Solis, Virgilius, decorative work, 830
Stark, Malcolm, second premiated design for Edinburgh Municipal Buildings, 394-395, 406, 436, 440-441, 445, 480-481
Statham, H. H., wrought-iron sign at the *Builder* Office, 499
Stevenson, J. J., saloons of steamship *Ormuz*, 838-839
Stokes, L. A, plan for completing Piccadilly Circus, 484
Street, G. E. (R. A.) and A. E., American Church, Paris, 10, 40-49, 158-159
Tanner, H., Probate Office, York, 358
Tarver, E. J., Piccadilly-circus, plan for completing, 368
Tasker, F. W., R.C. Church of St. Vincent de Paul, Mill Hill, 914
Thornycroft, Hamo, sculpture, General Gordon, 681
Valck, Gerard, ornament, 145
Venner, W. H. T., sculpture, "The Brazen Serpent," 230
Visscher, C. J., scroll, 151
Walker, D., Church of St. John, Rhyl, 326
Waterhouse, A., R.A., National Liberal Club-house, 782-783
Weatherley & Jones, design for All Saints' Church, Peterborough, 91
Witherington, W. S., offices, Fetter-lane, 256
Woeriot, Pierre, sword-handle, 151
Young, A., stables, Clipsham Hall, Rutland, 612, 617, 619
Young, K. D., & Hall, H., Hastings and St. Leonard's Hospital, 180, 186-187
Zwoll, Bolten von, ornament by, 935

ILLUSTRATIONS.

ABBEY, Fountains: Conjectural Restoration, by J. A. Reeve, 86-87
Abbey, Pershore: Lantern Tower, drawn by R. W. Paul, 292-293
Abbey, Tewkesbury, sketched by R. W. Paul, 190
Abbey, Westminster: Chantry of Henry V., drawn by G. T. McCombie, 52-53
Almshouses, Charlton, Kent, E. I'Anson & Son, Architects, 727
Almshouses, Louth, Jas. Fowler, Architect, 359
Appartamenti Borgia, Vatican, Decoration by Pinturrichio, 28-29, 32-33, 60-61
Assize Courts for a Country Town, Design by S. B. Russell, 155

BALUSTRADES, Japanese, 59
Bank at Aden, for Messrs. Luke Thomas & Co., A. H. Kersey, Architect, 78, 80-83
Bank of the Commercial Banking Co. of Sydney, W. W. Gwyther, Architect, 565, 581
Bank of England: Fleet-street Branch, A. W. Blomfield, M.A., Architect, 766-767
Bede-houses, Orme, Louth, Jas. Fowler, Architect, 359
Bureau des Marchands-Drapiers, Paris, 539

CANDLESTICK, by W. Jamitzer, Munich, 151
Capital, West Walton Church, sketched by A. B. Mitchell, 469
Castle, Edinburgh, Restoration suggested by Walter F. Lyon, Architect, 640
Castle, Elz, sketched by W. J. N. Millard, 613
Castle, Limburg-on-the-Lahn, sketched by W. J. N. Millard, 602, 613
Castle, Stokesay, sketched by H. D. Walton, 810-811
Carvings, Japanese, 59
Cathedral, Lincoln: Foundations of Norman Choir (Plan), 755; Foundations of St. Hugh's Apse (Plan), 756; Development of the Ground-plan of St. Hugh's Apse, by J. L. Pearson, R.A., 757
Cathedral, Rouen, Portion of West Front, sketched by A. B. Mitchell, 428-429
Cathedral, Siena, 16-17
Chantry of Henry V., Westminster Abbey: drawn by G. T. M'Combie, 52-53
Chapel (Interior), Royal Holloway College, W. H. Crossland, Architect, 871
Chapel, Saxon, at Deerhurst, sketched by R. W. Paul, 177
Chapel, Wesley Memorial, Epworth, James Hicks, Architect, 608
Chimney-Piece in the Palais de Justice, Bruges, 319
Chimney-Piece in the Palace of Fontainebleau, 318
Church: All Saints', Peterborough: Design by Weatherley & Jones, 91
Church, American, Paris, G. E. Street (R.A.) & A. E. Street, Architects, 10, 40, 49, 158-159
Church, Arreton, 261
Church, Carisbrooke, 261
Church, Classical, Tite Prize Design, by Frank W. Simon, 218-219, 222-223

ILLUSTRATIONS (continued):—

Church, Congregational, West Croydon, W. D. Church, Architect, 194
Church, Garrison, Stuttgart, Prof. Döllinger, Architect, 573
Church, Godshill, 261
Church of the Holy Innocents, Hammersmith, James Brooks, Architect, 36-37
Church of the Holy Redeemer, Clerkenwell, J. D. Sedding, Architect, 672-673
Church of Notre Dame de l'Épine, near Chalons-sur-Marne, sketched by A. B. Mitchell, 285
Church of St. Étienne le Vieux, Caen, sketched by F. Williamson, 329
Church, SS. George and Mary, Beckenham, W. G. Bartleet, Architect, 506-507
Church, St. John's, Rhyl, David Walker, Architect, 326
Church, St. Margaret's, Ipswich, drawn by H. P. Adams, 576-577
Church of St. Mary Magdalene, Chiswick, Newman & Newman, Architects, 426
Church of Sta. Maria dei Miracoli, Venice: Plan, 712; Details, 722-723
Church, proposed, St. Paul's, Kensington, James Brooks, Architect, 116, 122-123, 126-127; Design by R. A. Briggs, 327
Church, Stow-in-the-Wold, sketched by R. W. Paul, 177
Church, Suburban, Design for a, by Thomas Garratt and J. C. Carter, 288
Church, Sunningdale, J. O. Scott, Architect, 806-807
Church, Warminster, A. W. Blomfield, Architect, 260
Church (R.C.), St. James's, Spanish-place, Goldie, Child, & Goldie, Architects, 842-843, 878-879
Church (R.C.), of St. John-the-Baptist, Brighton, S. J. Nicholl, Architect, 779
Church (R.C.), St. Vincent de Paul, Mill Hill, F. W. Tasker, Architect, 914
Cisterns, Lead, Fairfax House, Putney, 517
Club-house, Boston, U.S., W. R. Emerson, Architect, 150
Club-house, Bryanston Working Men's, G. Hubbard, Architect, 915
Club-house, National Liberal, A. Waterhouse, R.A., Architect: Plans, 782-783
Club-house, St. Louis, Peabody & Stearns, Architects, 803
College, Brasenose, Oxford, T. G. Jackson, M.A., Architect, 832, 834-835
Cottage at Manchester, Massachusetts, A. Little, Architect, 150

DECORATION of the Appartamenti Borgia, Vatican, by Pinturrichio, drawn by F. W. Woodhouse, 28-29, 32-33, 60-61
Decoration of Chapel, Royal Holloway College, W. H. Crossland, Architect, 871
Design for Frieze, by Herbert J. Draper, 182-183
Details from Sta. Maria dei Miracoli, Venice, 722-723
Diagrams *in re* Light and Air Questions, 529-530, 559
Dining-room and Furniture, designed by R. A. Briggs, 736
Doorway, City Hall, Albany, H. H. Richardson, Architect, 538
Doorway, Palazzo Tolomei, sketched by Reginald Barratt, 503
Drainage Traps, 247-248
Drainage Works at the Houses of Parliament: Sewage Ejectors, &c., Isaac Shone, Engineer, 178-179, 733

"ENCHANTED CHAIR," the, Alfred Gilbert, Sculptor, 24-25

FAIRFAX HOUSE, Putney, 263, 517
Fire-Engine Station, Hornsey, T. de Courcy Meade, Architect, 226
Floors, Ebner's Hydrofuge, 735
Fonts (sketched by R. W. Paul): Blakeney, 633; East Dereham, 644; Fakenham, 633; Leverington, 644; Walsingham, 645; Walsoken, 633
Frieze, Decorative, designed by Herbert J. Draper, 182-183

GABLES, Fairfax House, Putney, 263, 517
Gables, Hôtel Bourgthérolde, Rouen, sketched by Ernest C. Lee, 676
Gas-burner, Welsbach Incandescent, 285
Gateway, Japanese, 344
Goldsmiths' Work by Jean Bourguet and Pierre Bourdon, 6, 75
Goldsmiths' Work by Herbst, Le Blond, and Gentsch, 112-113
Grate, the "Marlborough," 523
Grotesques, 598-599, 633-634

HALL, the Queen's, People's Palace, Mile End, E. R. Robson, F.S.A., Architect, 718-719
Home for Ladies, Hove, Lainson & Son, Architects, 90
Hospital, Hastings, St. Leonard's, and East Sussex, K. D. Young and Henry Hall, Architects, 180, 186-187
Hôtel Bourgthérolde, Rouen, sketched by Ernest C. Lee, 676
Hôtel Carnavalet, Paris, 528
Hôtel de Ville, Arcueil-Cachan (Seine), M. Ulysse Gravigny, Architect, 870
Hôtel de Ville, Pantin, Paris, M. Léon Guélorget, Architect, 12-13
House, Chicago, Cobb & Frost, Architects, 802
House, Graythwaite Hall, Windermere, R. Knill Freeman, Architect, 874-875
House at Grimsby, Charles Bell, Architect, 846
House at Manchester, Mass., A. Little, Architect, 150
House, "Oakleigh," Tunbridge Wells, Geo. Lethbridge, Architect, 535
House, Wimbledon, Potts, Sulman, & Hennings, Architects, 775
Houses, Chelsea, F. G. Knight, Architect, 350-351
Houses, Chicago, S. G. Beaumont, Architect, 148, 193
Houses, Old, Rouen, sketched by A. B. Mitchell, 284
Houses of Parliament Drainage Works: Sewage Ejectors, &c., Isaac Shone, Engineer, 178, 179
Houses and Shops, Cabot & Chandler, Architects, 803

INFIRMARY, Aberdeen, proposed new Pavilions, H. Saxon Snell and W. & J. Smith, Architects, 868, 881
Infirmary, St. Saviour's Union, Champion-hill, H. Jarvis & Son, Architects, 322-323, 648
Instruments, Levelling (see "Levelling Instruments").
Instruments, Surveying (see "Surveying Instruments").

JONES, the late Sir Horace, Portrait, 864

KILN, the Dietzsch, 622

LEVELLING Instruments:—Troughton & Simms's Level, 624; Dumpy Level, 657; Level, the, 686; Cushing's Level, 786; Y Level, the, 818; Jahn's Tripod Head, 852; Sang's Level, 853; Stevenson's Level, 853; Doering's Level, 886; Pastorelli's Level, 922; Hand Level, 953; Abney's Level, 953
Lock, Hill's Reversible Rim, 162
London, Map of (see note at foot of this page)

MAIRIE, Arcueil-Cachan (Seine), M. Ulysse Gravigny, Architect, 870
Mansion, Graythwaite Hall, Windermere, R. Knill Freeman, Architect, 874-875
Mansion, Stowell Park, John Belcher, Architect, 902-903
Mansions, Westminster, E. T. Hall, Architect, 936, 942-943
Map of London (see note at foot of this page)
"Measure and Value," drawn by H. W. Brewer, 20-21
Monument to Bishop Fraser, James Forsyth, Sculptor, 939
Monument to Bishop Ollivant, H. H. Armstead, R.A., Sculptor, 939
Mortuary and Coroner's Court, Hornsey, T. de Courcy Meade, Architect, 227
Municipal Buildings, Edinburgh:—
Block Plan of Site, 384
First Premiated Design, Leeming & Leeming, Architects, 386-387, 390-391, 402-403, 432-433, 437, 444
Second Premiated Design, Malcolm Stark, Architect, 394-395, 406, 436, 440-441, 445, 480-481
Third Premiated Design, J. W. Simpson & E. J. Milner Allen, Architects, 398-399, 407, 472-473, 476-477, 483
Design by Morris & Hunter, 500, 510-511, 514-515
Design by Brightwen Binyon, 566, 568-569, 572
Design by Hay & Henderson, 604-605
Design, "Fortuna," by J. M. Brydon, Architect, 906-907, 910-911, 917-918
Municipal Buildings, Sunderland, Brightwen Binyon, Architect, 784, 770-771
Museum, Art, for Geneva, Design by Herr Alexander Koch, Architect, 250, 252-253

NATIONAL GALLERY ADDITIONS in relation to the New Street at Charing Cross, Plan proposed by the Royal Institute of British Architects, 900
National Liberal Club-house: Plans, A. Waterhouse, R.A., Architect, 782-783

OFFICE, Probate Registry, York, H. Tanner, Architect, 358
Offices, Fenchurch-st., Thos. Blashill, Architect, 195, 197
Offices, Fetter-lane, for Sampson Low & Co., W. S. Witherington, Architect, 256
Offices of the West Bromwich Union, Henman & Timmins, Architects, 580
Offices, Woolwich, Percival Brown, Architect, 677
Offices of the *Yorkshire Post*, Leeds, Chorley & Connon, Architects, 289
Oratory, Brompton, Goldie & Child's Design for, 536, 540-543, 545-547
Organ-Screen, King's College Chapel, Cambridge: Details, 308
Ornament, designed by Dr. Dresser, 503
Ornament by P. Birkenhultz, 144
Ornament by Bolten von Zwoll, 935
Ornament by Pierre Bourdon, 75
Ornament by Jean Bourguet, 6
Ornament by P. Carravaggio, 280
Ornament by the two De Brys, 212-213
Ornament by R. J. Folkema, 144
Ornament by Philip Galle, 145
Ornament by Herbst, Le Blond, and Gentsch, 112-113
Ornament by Hendrik Janssens, 145
Ornament by B. Pittoni, 151
Ornament by Unknown Designers, 278-279
Ornament by Gerard Valck, 145
Ornament by Virgilius Solis, 830
Ornament by C. J. Visscher, 151

PALACE, the People's, Mile End: the Queen's Hall, E. R. Robson, F.S.A., Architect, 718-719
Palace, People's, Design for a, E. W. Godwin and J. P. Seddon, Architects, 257
Paving, a new Method of, 163
Pier in Nave, West Walton Church, Norfolk, sketched by A. B. Mitchell, 469
Plan of the Hebrew Dramatic Club, Spitalfields, 173
Plan showing New Street at Charing-cross and proposed Enlargement of the National Gallery, 900
Plan of Sta. Maria dei Miracoli, Venice, 712
Plans showing proposed Completion of Piccadilly-circus Improvement: by E. J. Tarver, Architect, 368; by L. A. Stokes, Architect, 484
Porch, St. Nicholas Chapel, King's Lynn, sketched by A. B. Mitchell, 468
Porches in Shropshire, sketched by H. D. Walton, 810-811
Portrait of the late Sir Horace Jones, 864
Premises, Wimbledon, Potts, Sulman, & Hennings, Architects, 775
Probate Office, York, Henry Tanner, Architect, 358

QUEEN'S HALL, People's Palace, Mile End, E. R. Robson, Architect, 718-719

RAIN-WATER Separator, Roberts's, 884
Reredos, Langport Church: J. D. Sedding, Architect, G. W. Seale, sculptor, 938
Roof of Staple Inn Hall, Holborn, drawn by Paul Waterhouse, 865

SALOONS of the Steamship *Ormuz*, designed by J. J. Stevenson, Architect, 838-839
Schools, Basingstoke, Charles Bell, Architect, 296-297
Schools, Northampton, Thos. Garratt, Architect, 774
Screen, Warfield Church, drawn by A. E. Permain, 363
Scrolls by B. Pittoni & C. J. Visscher, 151
Sculpture, Bureau des Marchands-Drapiers, Paris, by MM. Gautier & Villeminot, 539
Sculpture, "The Enchanted Chair," Alfred Gilbert, Sculptor, 24-25
Sculpture, Harris Free Library, Preston: James Hibbert, Architect; E. R. Mullins, Sculptor, 118-119, 201
Sculpture: "The Brazen Serpent," Geo. J. Frampton, Sculptor, 231
Sculpture: "The Brazen Serpent," W. H. T. Venner, Sculptor, 230
Sculpture at the Royal Academy:—"Ladas," by H. H. Armstead, R.A., 680; "Peace," by E. Onslow Ford, 680; "General Gordon," by Hamo Thornycroft, A.R.A., 681; "Mr. C. Wyndham as *David Garrick*," by C. B. Birch, A.R.A., 681
Sculpture: Tanagra Terra-cottas, 154
Sewage-Ejectors at the Houses of Parliament, Mr. Isaac Shone, Engineer, 178, 733
Shops, Brook-street, Grosvenor-square, Joseph & Smithem, Architects, 619
Shops, Chelsea, F. G. Knight, Architect, 350-351
Shops, Fenchurch-street, Thos. Blashill, Architect, 195, 197
Shops and Offices, Cabot & Chandler, Architects, 803
Sign, Wrought iron, at the *Builder* Office, designed by H. H. Statham, 499
Sketches in Gloucestershire, by R. W. Paul, 177
Sketches in the Isle of Wight, by J. E. Inglis, 261
Sketches in Shropshire, by H. D. Walton, 810-811
Sludge-ship for London Sewage, 549
"Spring Time," Decorative Design by Herbert J. Draper, 182-183
Stables, Clipsham Hall, Rutland, A. Young, Architect, 612, 617, 619
Stained Glass, Designs for, by E. Burne Jones, A.R.A. 354-355
Stained-glass Window, St. Mary's, Lucan, Co. Dublin, 616
Stairs, Fairfax House, Putney, 263
Statue of Admiral Coligny, Paris, M. Crank, Sculptor, 191
Statue of Rousseau, Paris, M. Berthet, Sculptor, 609
Statues, Bronze, Tomb of Maximilian at Innsbruck, sketched by W. J. N. Millard, 638, 641
Summer-house and Smoking-room, Bolton Royd, H. & E. Marten, Architects, 847
Surveying Instruments: Optical Square, 65; Vernier, the 102; Box Sextant, 134-135; Line Ranger, the, 166; Compass Box, 202; Cross Staff, 203; Prismatic Compass, 203, 236-237; Compass Clinometer, 237; Clinometer Rule, 267; Circumferentor, 303, 332; Lean's Dial, 332; Theodolite, the, 333, 370, 412, 449-450, 486, 522, 552; Level Staff, forms of, 588; see also "Levelling Instruments."
Sword-handle, by Pierre Woeriot, 151

TERRA-COTTAS, Tanagra, 154
Theatre Tea-house, Japanese, 342-343
Theodolite, the, 333, 370, 412, 449-450, 486, 522, 551
Tomb of Cardinal Matteo, Sta. Maria in Ara Coeli, Rome, drawn by Gerald Horsley, 946
Tomb of Maximilian I. in the Hofkirche, Innsbruck; Bronze Figures, sketched by W. J. N. Millard, 638, 641
Tower, Carisbrooke Church, 261
Tower, Pershore Abbey, drawn by R. W. Paul, 292-293
Tower, Siena Cathedral, 16-17
Tower, Stow-in-the-Wold Church, sketched by R. W. Paul, 177
Towers, Abbaye aux Hommes, Caen, drawn by Gerald Horsley, 947
Traps, Drainage, 247-248

VATICAN, Decoration of the Appartamenti Borgia, by Pinturrichio, 28-29, 32-33, 60-61
Ventilator, Boyle's Vertical Current Exhaust, 99
Vestibule, Casino Theatre, New York, Kimball & Wisedell, Architects, 538
Vestry Hall, Hampstead, Additions to, F. Mew, Architect, 763, 778

WAREHOUSES, Fetter-lane, W. Seckham Witherington, Architect, 256
Warehouses, St. Paul's Churchyard, Delissa Joseph, Architect, 362
Water-gate, Hoorn, sketched by F. T. W. Goldsmith, 562-563
Window, St. Mary's, Lucan, Co. Dublin, 616
Windows, Glass, designed by E. Burne Jones, A.R.A., 354-355

*** A Map of London and Suburbs, showing the Boundaries of the various Surveyors' Districts under the Metropolitan Board of Works, was given with the first four numbers of this Volume, in four quarter sheets issued January 1, 8, 15, and 22. Where not mounted on rollers or strainers for hanging up, it is suggested that they may be pasted together and inserted as a folding-plate at the beginning or end of the Volume.